



JUN 11 A

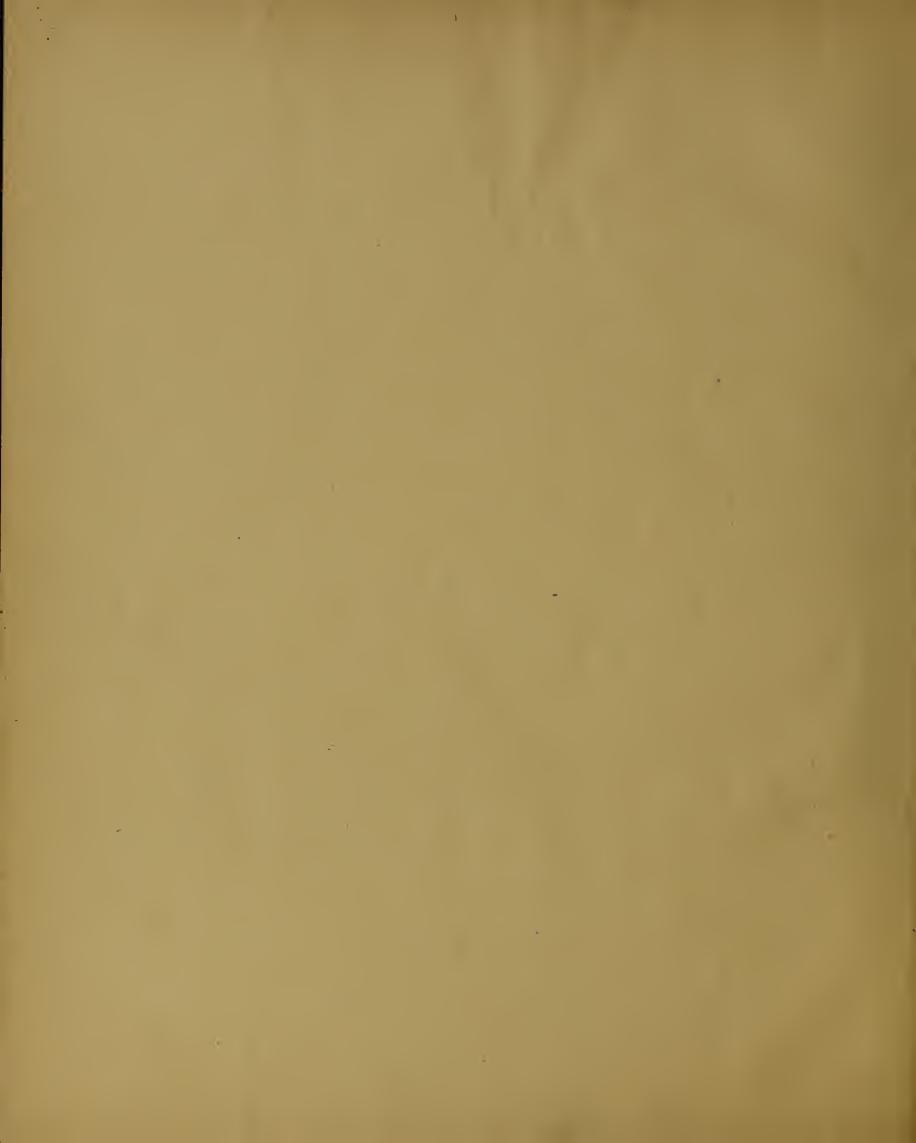
JUL 31

JAUG 10

MAR 13

SEP 12

JAPR 17



# HARPENS SCHOOL

## GEO GRAPHY



### WITH MAPS AND ILLUSTRATIONS

PREPARED EXPRESSLY FOR THIS WORK

BY EMINENT AMERICAN ARTISTS

NEWYORK

HARPER & BROTHERS

### PUBLISHERS' ADVERTISEMENT.

In presenting to the public this work on geography, the publishers respectfully invite the attention of Boards of Education, teachers, and parents to the following statement of its plan and leading features:

The study of geography is now, much more than at any former period, an essential element in education. It is second in importance only to reading, writing, and rudimentary arithmetic. The newspaper is and must continue to be the chief source of that knowledge of current events which is indispensable to every intelligent person. Its telegrams and other items and articles necessarily assume that the reader possesses a knowledge of certain geographical facts. It is the aim of this work to present and impress these facts.

To this end the careful selection and arrangement of topics have been regarded as matters of prime necessity in order to insure such a unity of plan as to present a simple, yet practical, definite, and coherent view of the subject.

The geography of commerce has been made the leading line of thought, because commerce, domestic and foreign, is becoming more and more a dominant interest in the affairs of the leading nations of the world, and because no other department of the general subject presents in such bold relief their rivalries and mutual dependencies. It involves a systematic presentation of the resources and industries of countries as dependent upon climate, soil, mineral deposits, and other physical conditions. It also includes all important information concerning cities and towns as commercial, manufacturing, and mining centres, and an outline of the system of transportation, domestic and international. The tables of reference show the total imports and exports of all the maritime nations, and particularly the commerce of each of these countries with the United States.

The work is essentially in two distinct parts—a physical geography and a political geography. The physical geography is treated very briefly; and, though important, presents no difficulty greater than the description of a chain of mountains or of the course of a river. A systematic outline of this department will be found in the questions of the general review. Each of the two parts has a series of special maps, exercises, and descriptions. Each series is complete in itself,

and may be so taught if it be thought desirable. Again, by a difference in type and by the arrangement of the questions, each series presents the choice of a simple outline or a fuller course.

The questions are so clearly related to the maps and the text as to avoid the serious difficulties which frequently arise from obscurity in this connection. The cities and towns called for by the text are at once pointed out both by the prominence of the type and by a peculiar device of color which will be found upon the maps.

Among the many other original matters of great practical importance to pupils and teachers are the map showing the divisions and subdivisions of the United States, and the Industrial and Commercial Map of the United States, exhibiting the leading industries and resources of the country, and its various existing and proposed systems of transportation by railroad, coast lines, and interior water-ways, the whole for the first time so simply and clearly presented as to be easily committed to memory.

The definitions are few and brief, and, like the rest of the work, are expressed in the simplest language which the subject will allow.

The map-drawing exercises and the tabular reviews are simple and practical, and will commend themselves to teachers.

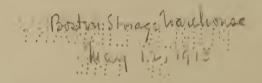
The perfect clearness and legibility of the maps and the character of the type used in the text prevent injury to the sight of the pupil and teacher.

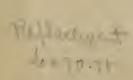
In view of the limited time which can be given to geography in school, this treatise has been made as concise as possible, without limiting its comprehensiveness. This is not only very desirable in itself, but was made necessary by the large type and the great space given to the instructive pictorial illustrations. While great care has been taken to reject all matter not strictly relevant, it is believed that no other School Geography presents so many essential facts and principles in so few words.

The character of the type and the quality of the illustrations, maps, paper, and binding of this work leave it without a rival in the beauty and excellence of its mechanical execution.

The work in all its details shows that the author is a practical teacher, to whom the difficulties of the class-room are thoroughly familiar.

FRANKLIN SQUARE, NEW YORK, January, 1876.





### TABLE OF CONTENTS.

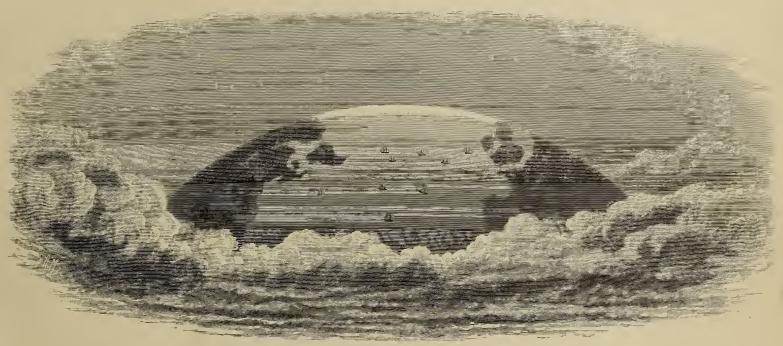
I.	THE EARTH: ITS SHAPE AND SIZE,	PAGE 1	XXXIX. DESCRIPTION OF POLITICAL UNITED STATES,	AGE 33
	MOTIONS OF THE EARTH,	2	XL. GOVERNMENT OF THE UNITED STATES,	
	CIRCLES OF THE EARTH,	3	XLI. QUESTIONS ON THE MAP OF THE NORTH ATLANTIC OR	
	LATITUDE.—LONGITUDE.—ZONES,	3		37
	GLOBES AND MAPS,	4	XLII. REVIEW EXERCISES,	37
	Divisions of the Land,	5	XLIII. DESCRIPTION OF THE NORTH ATLANTIC OR NEW EN-	
	ELEVATIONS OF THE LAND,	5		37
	Divisions of the Water,	6	XLIV. QUESTIONS ON THE MAP OF THE MIDDLE ATLANTIC	
	Divisions of Geography,	6	STATES,	41
121.	Map-Drawing,	7	XLV. Review Exercises,	
x	QUESTIONS ON THE MAP OF THE WESTERN HEMI-	- 1	XLVI. DESCRIPTION OF THE MIDDLE ATLANTIC STATES,	
21.		8	XLVII. QUESTIONS ON THE MAP OF THE SOUTH ATLANTIC AND	11
ΥI	SPHERE,	8	SOUTH CENTRAL STATES,	4.4
	QUESTIONS ON THE MAP OF THE EASTERN HEMI-	O	XLVIII. Review Exercises,	
211.	SPHERE,	10	XLIX. Description of the South Atlantic States,	
VIII	Review Exercises,	10	L. Description of the South Atlantic States,	
	CONTINENTS,		LI. QUESTIONS ON THE MAP OF THE NORTH CENTRAL	* 1
	Islands,		_	10
	Mountains,		STATES,	
			· ·	
	PLATEAUS OR TABLE-LANDS,			50
			LIV. QUESTIONS ON THE MAP OF THE WEST CENTRAL STATES AND STATES OF THE PLAINS: NORTHERN DIVISIONS, &	50
	OCEANS,		· ·	
	Drainage Waters.—Rivers,		LV. Review Exercises,	99
	Lakes.—Glaciers and Icebergs,		LVI. QUESTIONS ON THE MAP OF THE WEST CENTRAL STATES AND STATES OF THE PLAINS: SOUTHERN DIVIS-	
	OCEAN CURRENTS,			5.4
	Winds,		IONS,	54
	CLIMATE,		LVII. REVIEW EXERCISES,	
	RACES OF MEN,			56
	CONDITIONS OF SOCIETY,			90
	GOVERNMENT,	18	LX. QUESTIONS ON THE MAP OF THE WESTERN OR HIGHLAND	~ O
XX V 111.	QUESTIONS ON THE PHYSICAL MAP OF NORTH	0.1	STATES,	59
VVIV	AMERICA,			59
	Description of Physical North America,	19	LXII. DESCRIPTION OF THE WESTERN STATES: ROCKY MOUNT-	50
$\Lambda\Lambda\Lambda$	. CLIMATE, VEGETATION, AND ANIMALS OF NORTH	7.0		
VVVI	AMERICA,	19	LXIII. DESCRIPTION OF THE WESTERN STATES: BASIN DIVISION, (	
AAA1.	QUESTIONS ON THE POLITICAL MAP OF NORTH	0.0	LXIV. Description of the Western States: Pacific Division,	
VVVII	AMERICA,		LXV. INDUSTRIES OF THE UNITED STATES,	
	Review Exercises,	22	LXVI. Transportation,	
XXXIII.	QUESTIONS ON THE PHYSICAL MAP OF THE UNITED	0.4	LXVII. QUESTIONS ON THE MAP OF THE DOMINION OF CANADA,	
373737137	STATES,	24	211.111.111.111.111.111.111.111.111.111	68
XXXIV.	Position, Area, and Surface of the United	0.1	LXIX. Description of Canada and Newfoundland,	บช
37373737	STATES,	24	LXX. QUESTIONS ON THE MAP OF MEXICO, CENTRAL AMERICA,	<b>h</b> 0
	WESTERN HALF OF THE UNITED STATES,	24	AND THE WEST INDIES,	
	EASTERN HALF OF THE UNITED STATES,	26	LXXI. Review Exercises,	73
	Divisions and Subdivisions of the United States,	29		
XXXVIII.	REVIEW OF POLITICAL MAP OF THE UNITED STATES,	32	LXXIII. DESCRIPTION OF CENTRAL AMERICA,	71

		PAGE		PAGE
	DESCRIPTION OF THE WEST INDIES,	73	XCIV. DESCRIPTION OF THE GERMAN EMPIRE, NETHERLANDS,	
LXXV.	QUESTIONS ON THE PHYSICAL MAP OF SOUTH AMER-		AND BELGIUM,	98
	ICA,	75	XCV. QUESTIONS ON THE PHYSICAL MAP OF ASIA,	101
LXXVI.	SURFACE OF SOUTH AMERICA,	76	XCVI. Description of Physical Asia,	103
LXXVII.	QUESTIONS ON THE POLITICAL MAP OF SOUTH AMER-		XCVII. QUESTIONS ON THE POLITICAL MAP OF ASIA,	103
	ICA,	78	XCVIII. Review Exercises,	103
LXXVIII.	Review Exercises,	78	XCIX. Description of Political Asia,	105
LXXIX.	DESCRIPTION OF POLITICAL SOUTH AMERICA, .	78	C. Description of British India and Indo-China,	107
LXXX.	QUESTIONS ON THE PHYSICAL MAP OF EUROPE,	83	CI. Description of Persia, Afghanistan, Beloochistan,	
LXXXI.	DESCRIPTION OF PHYSICAL EUROPE,	83	Arabia, and Turkey,	108
LXXXII.	QUESTIONS ON THE POLITICAL MAP OF EUROPE,	86	CII. QUESTIONS ON THE MAP OF OCEANICA—(THE GREAT	
LXXXIII.	Review Exercises,	86	Archipelagoes, Australia, etc.),	110
LXXXIV.	GOVERNMENTS AND POPULATION OF EUROPE,	88	CIII. Review Exercises,	110
LXXXV.	QUESTIONS ON THE MAP OF THE BRITISH ISLES, .	88	CIV. Description of Oceanica,	
LXXXVI.	Review Exercises,	88	CV. Questions on the Physical and Political Map of	
LXXXVII.	DESCRIPTION OF THE BRITISH ISLES,	90	Africa,	
LXXXVIII.	QUESTIONS ON THE MAP OF WESTERN AND CENTRAL		CVI. Review Exercises,	
	Europe,	93	CVII. DESCRIPTION OF PHYSICAL AFRICA,	
LXXXIX.	REVIEW EXERCISES,	93	CVIII. DESCRIPTION OF POLITICAL AFRICA,	
XC.	DESCRIPTION OF WESTERN AND CENTRAL EUROPE, .	93	CIX. Description of Caucasian Africa,	
XCI.	DESCRIPTION OF AUSTRIA, TURKEY, GREECE, AND		CX. Description of Negro Africa,	
	Denmark,	95	CXI. GENERAL REVIEW EXERCISES, 122,	, 123
XCII.	QUESTIONS ON THE MAP OF THE GERMAN EMPIRE,		Cartography,	
	NETHERLANDS, AND BELGIUM,	97	Tables,	
XCIII.	Review Exercises,	98	Pronouncing Vocabulary, 126, 127,	

### MAPS.

PAGE	PAGE
Western Hemisphere,	COMMERCIAL AND INDUSTRIAL UNITED STATES, 66,67
EASTERN HEMISPHERE,	Dominion of Canada, 69
Physical North America,	Mexico, Central America, and West Indies,
Political North America,	Physical South America,
Physical United States,	Political South America,
United States in Groups,	Physical Europe, 82
POLITICAL UNITED STATES,	Political Europe, 87
NORTH ATLANTIC OR NEW ENGLAND STATES,	British Isles,
MIDDLE ATLANTIC STATES,	WESTERN AND CENTRAL EUROPE,
SOUTH ATLANTIC AND SOUTH CENTRAL STATES,	GERMAN EMPIRE, NETHERLANDS, AND BELGIUM, 97
NORTH CENTRAL STATES,	PHYSICAL ASIA,
West Central States and States of the Plains: Northern	Political Asia,
Division,	OCEANICA—(THE GREAT ARCHIPELAGOES, AUSTRALIA, ETC.),
WEST CENTRAL STATES AND STATES OF THE PLAINS: SOUTHERN	Physical and Political Africa,
Division,	Map of the Principal Ocean Trade Routes of the
Western or Highland States,	WORLD,





### MATHEMATICAL GEOGRAPHY.

I.

### THE EARTH: ITS SHAPE AND SIZE.

- 1. **Geography** is a description of the surface of the earth, and of its countries and their inhabitants.
- 2. **The shape** of the earth is nearly that of a ball, globe, or sphere.

The earth does not appear to be shaped like a ball, but looks like a large plain, stretching out in every direction. The reason of this is that we see only a small part of it at one time.

Note.—To ensure correct conceptions on the part of the pupil, it is recommended that the lessons on Mathematical Geography be illustrated by means of a globe.

3. We know that the earth is shaped like a ball from the following facts:

First. Ships have sailed around it.

Second. When a ship sails away from the land, the hull or body first disappears from sight, then the sails, and last the tops of the masts.

When a ship is coming in from sea, the tops of the masts are seen first, then the sails, and lastly the hull or body. If the surface of the water were flat, the hull would be seen as soon as the masts.

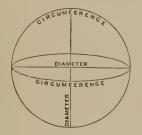
In like manner, in travelling across broad plains we see the tops of distant mountains long before their bases are visible.



Third. The shadow which the earth casts upon the moon is always circular.

A ball or sphere being the only body that always casts a circular shadow, we conclude that the earth has the shape of a ball or sphere.

4. A diameter of a sphere is any straight line drawn



through the centre from surface to surface.

The diameter of the earth is nearly eight thousand miles.

5. **A circumference** of a sphere is the greatest distance around it.

The circumference of the earth is

nearly twenty-five thousand miles.

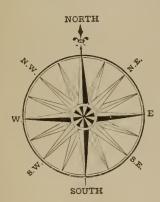
- 6. **The surface** of the earth contains nearly two hundred millions of square miles.
- 7. **The horizon** is that circle upon which the earth and the sky appear to meet.

That point of the horizon towards which your shadow falls at noon is called **north.**\*
The opposite point is called **south.** If you face the north, your right hand is to-



wards the east, and your left hand is towards the west.

8. North, east, south, and west are called the cardinal points of the horizon. The points midway between these



The points midway between these are called northeast, southeast, southwest, and northwest.

9. The compass is an instrument used by mariners and surveyors. It consists of a circular card representing the horizon and its points. Over the centre of the card is a magnetic needle, balanced on a pivot: this needle points towards the north.

Questions.—What does this section tell about?—1. What is geography?—2. What is the shape of the earth? How does the earth appear to us? Why is this?—3. What is the first fact by which we know that the earth is a globe? The second fact? The third fact?—4. What is a diameter of a sphere? How long is the earth's diameter?—5. What is a circumference of a sphere? How long is the earth's circumference?—6. How many square miles in the surface of the earth?—7. What is the horizon? Which way is north, south, etc.?—8. Which are the cardinal points? The points between these?—9. Describe the compass.

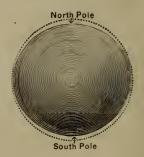
### II.

### MOTIONS OF THE EARTH.

- 1. The earth has two constant motions, the daily and the annual.
- 2. **The daily motion** of the earth is its rotation on one of its diameters. The direction of the motion is from west to east: this causes the sun to appear to move from east to west. The sun appears to rise in the east because the place where we are is moving towards it; it appears to set in the west because the place where we are is moving from it.

The diameter on which the earth turns is called its **axis**. The time in which the earth turns on its axis is called a day.

- 3. The daily rotation causes the succession of **day** and **night**. Each place is carried into the sunlight, and then into the shade of the earth.
- 4. **The poles** are the points at the ends of the axis. One is called the North Pole, the other the South Pole.
  - 5. The swiftness of the rotation has caused the earth to
- be slightly flattened at the poles, and to bulge out a little midway between them. A globe flattened at the poles is called an **oblate spheroid**. The length of the earth's axis, or shortest diameter, is 7899 miles; the longest diameter is 7925 miles. The greatest circumference is 24,899 miles.



Note.—The polar diameter is about one three-hundredth less than the equatorial.

- 6. The earth moves around the sun in a nearly circular path, called its orbit. The time in which the earth revolves around the sun is called a year. It contains nearly 365\frac{1}{4} days. This motion is called the annual revolution.
- 7. The axis of the earth is inclined to its orbit. This inclination never changes.
- 8. The annual revolution of the earth and the inclination of its axis cause the change of the **seasons**.

Questions.—What does this section tell about?—I. How many motions has the earth? What are they?—2. What is the daily motion of the earth? In what direction is it? How does the sun appear to move? Why does it appear to rise and set? What is the axis of the earth? What is a day?—3. What is caused by the daily rotation of the earth?—4. What are the poles? What are they called?—5. What effect has the swiftness of the rotation? What name is given to the true shape of the earth? What is an oblate spheroid? How many miles difference between the longest and the shortest diameter? How long is the greatest circumference?—6. What other motion has the earth? What is the shape of its path? Its name? What is a year? How long is it?—7. What is the position of the earth's axis? Does the inclination change?—8. What cause the change of the seasons?

### III.

### THE CIRCLES OF THE EARTH.

1. The circles of the earth\* are lines imagined to be drawn on its surface.

These circles are of two kinds—great circles and small circles.

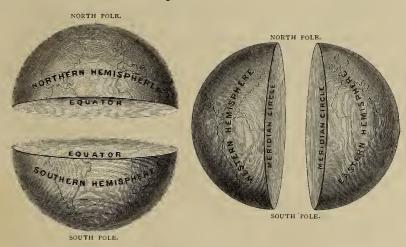
- 2. A great circle is one that divides the earth into two equal parts. Each of these parts is called a hemisphere, which means a half-sphere.
- 3. A small circle is one that divides the earth into two unequal parts.
- 4. Every circle is divided into 360 equal parts called

degrees; each degree is divided into 60 equal parts called minutes; and each minute into 60 equal parts called seconds.

The smaller the circle, the shorter are the degrees. Degrees

are marked °, minutes ', and seconds ". Thus twelve degrees, fifteen minutes, and ten seconds are written 12° 15′ 10".

5. **The Equator** is that great circle which is midway between the poles. It divides the earth into a Northern and a Southern Hemisphere.

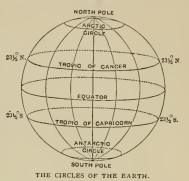


- 6. **Meridian circles** are those great circles which pass through the poles. Each divides the earth into an Eastern and a Western Hemisphere.
- 7. A meridian is half of a meridian circle, and extends from pole to pole.
- 8. **Parallels** are small circles parallel to the Equator. The principal parallels are the two tropics and the two polar circles.
- \* In Geometry, a distinction is made between the circle and its boundary line or circumference. The circle is really the space or surface bounded by the circumference. This distinction is not necessary in Geography.

9. The tropics are those parallels which are  $23\frac{1}{2}$  degrees from the Equator. The northern is called the

Tropic of Cancer, and the southern the Tropic of Capricorn.

10. **The polar circles** are those parallels which are  $23\frac{1}{2}$  degrees from the poles. The northern is called the Arctic Circle, and the southern the Antarctic Circle.



Questions (I.)—1. What are the circles of the earth? How many kinds of circles? What are they?—2. What is a great circle? What is a hemisphere?—3. What is a small circle?—4. How is every circle divided? How are degrees divided? How are minutes divided?—5. What is the Equator? Into what does it divide the earth?—6. What are meridian circles? Into what does each divide the earth?—7. What is a meridian?—8. What are parallels? Which are the principal parallels.—9. What are the tropics? Give the name of each?—10. What are the polar circles? Give the name of each?

(II.)—Read 32° 15′ 47″; 49° 11′ 37″. Which is larger, a degree of the Equator or of a tropic? Why? Of the Equator or of a meridian? Why? Of a tropic or of the Arctic Circle? Why? Which is the greater, the Eastern Hemisphere or the Northern? Why? How many meridian circles may there be? How many Equators? How many parallels? How many meridians?

### IV.

### LATITUDE.-LONGITUDE.-ZONES.

- 1. **Latitude** is distance north or south from the Equator. It is measured, in degrees, on a meridian. Places between the Equator and the North Pole are in north latitude; those between the Equator and the South Pole are in south latitude; those on the Equator have no latitude. The poles have the greatest possible latitude, which is 90 degrees.
- 2. **Longitude** is distance east or west from a selected meridian. It is measured, in degrees, on the Equator or any parallel. The selected meridian is called the first meridian.

The meridian in most common use is that which passes through Greenwich Observatory, near London. In the United States the meridian of Washington is sometimes used; in France that of Paris; in Germany that of Berlin; etc.

Places on the first meridian have no longitude. The greatest longitude is 180 degrees, east or west.

- A degree of any great circle measures 60 geographical miles, or about  $69\frac{1}{2}$  statute miles of the United States. A degree on the parallel of  $60^{\circ}$  is just half as long.
- 3. **Zones** are broad belts or divisions of the earth's surface parallel to the Equator. They are bounded by the tropics and the polar circles.

- 4. There are **five zones**: one Torrid, two Temperate, and two Frigid Zones.
- 5. **The Torrid Zone** extends from the Tropic of Cancer to the Tropic of Capricorn.

Torrid means hot. This zone is the hottest part of the earth, because the sun is always shining directly down upon some part of it. It is 47 degrees wide, or  $23\frac{1}{2}$  degrees on each side of the Equator, and is the largest zone.

6. **The North Frigid Zone** extends from the Arctic Circle to the North Pole.

The South Frigid Zone extends from the Antarctic Circle to the South Pole.

Frigid means frozen. The Frigid Zones are the coldest parts of the earth, because the sun shines upon each of them during only a part of the year, and with very slanting rays. Each extends  $23\frac{1}{2}$  degrees from the pole at its centre. They are the smallest, least important, and least known of the zones. The South Frigid Zone is not known to have one human inhabitant.

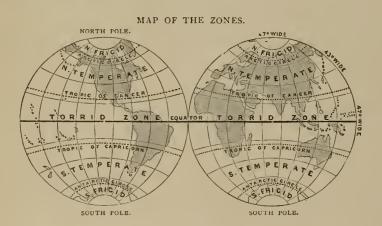
7. **The North Temperate Zone** extends from the Arctic Circle to the Tropic of Cancer.

The South Temperate Zone extends from the Antarctic Circle to the Tropic of Capricorn.

Temperate means moderate. Each of the Temperate Zones is 43 degrees wide. The North Temperate Zone is the most important portion of the world. It contains nearly three fourths of the human race.

Note.—The axis of the earth is inclined  $23\frac{1}{2}$  degrees towards its orbit. This determines the breadth of the several zones, the tropics being  $23\frac{1}{2}$  degrees from the Equator, and the polar circles being  $23\frac{1}{2}$  degrees from the Poles.

The four seasons, spring, summer, autumn, and winter, are found only in the Temperate Zones.



Questions (I.)—1. What is latitude? How is it measured? On what? In what directions? What places are in north latitude? In south latitude? What places have no latitude? What places have the greatest latitude? How many degrees?—2. What is longitude? How is it measured? On what? In what directions? What is the name of the meridian from which longitude is reckoned? What places have no longitude? What is the greatest longitude a place can have?—3. What are zones? By what are they bounded?—4. How many zones are there? Name them.—5. Where is the Torrid Zone?—6. The North Frigid? The South Frigid?—7. The North Temperate Zone? The South Temperate Zone? Which zones have four seasons during the year?

(II.)—2. What meridian is in most common use? What meridian is sometimes used in the United States? In England? In France? In Germany?—3. How many miles in a degree of a great circle? On the parallel of 60°?—5. Which is the hottest

zone? Why? What does its name mean? How wide is it? What great circle passes through the middle of it?—6. Which zones are the coldest parts of the earth? Why? What does their name mean? What point in the centre of each? How wide are they?—7. How wide are the Temperate Zones? What does their name mean? Which is the largest zone? The smallest? The hottest? The least important? Why? The most important? Why? Where are the coldest parts of the Temperate Zones? Where are their warmest parts?

### V. GLOBES AND MAPS.

MAP OF THE WORLD.

160 120 80 40 0 60 80 120 100

ARCTIC OCEAN

NAMERICA 0 EQUATOR

Isthmus of Panama

THE EQUATOR

INDIAN

ANTARCTIC OCEAN

OCEAN

ANTARCTIC OCEAN

OCEAN

NAUSDRAUA

10 40 80 120 1.0

- 1. The surface of the earth may be represented by globes and maps.
- 2. **A globe** is a sphere representing the form of the earth, its circles, and the principal divisions of the land and water.
- 3. A map is a representation of the whole or a part of the earth's surface on a plane.
  - A plane is a flat surface. The surface of a sphere can not be exactly represented upon a plane. Small portions of the earth's surface can be more correctly represented upon maps than very large ones.
- 4. Parallels cross the map from side to side; meridians, from top to bottom. East is in the direction of the parallels towards the right; west, towards the left. North is in the direction of the meridians towards the top; south, towards the bottom.
- 5. Figures showing the latitude are placed on the sides of the map; those showing the longitude are placed at the top and the bottom.

Exception.—In the maps of the Eastern and Western Hemispheres the longitude is marked on the Equator.

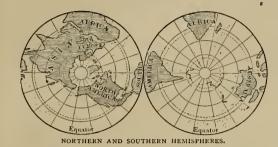
Questions (I.)—1. How may the surface of the earth be represented?—2. What is a globe?—3. What is a map?—4. How are parallels represented upon a map? How are meridians represented? Which way is east? West? North? South?—5. Where are the figures showing the latitude placed? Those showing the longitude? What exception?

(II.)—3. What is a plane? Can the surface of a sphere be exactly represented upon a map? Why? (Experiment with the peel of half of an orange.) Which can be made the more accurate, a map of a large portion of the earth's surface or one of a small portion? Why? Which represents the earth with more exactness, a globe or a map?

### PHYSICAL GEOGRAPHY.

### VI.

### DIVISIONS OF THE LAND.



1. The surface of the earth consists of land and water. About one fourth is land, and about three fourths water.

The Northern Hemi-



sphere contains about three times as much land as the Southern; the Eastern Hemisphere about two and a half times as much as the Western. The earth may be so divided that nearly all the land would be in one hemisphere, and the other would

WESTERN AND EASTERN HEMISPHERES.



2. The land sur-

be nearly all water.

face of the earth is divided into continents and islands.

- 3. A continent is a very large body of land.
- 4. There are six continents. Four are in the Eastern Hemisphere—Europe, Asia, Africa, and Australia. Two are in the Western Hemisphere—North America and South America.

The three large continents of the Eastern Hemisphere are joined into one great land-mass called the Old World (see map on page 4). The united continents of the Western Hemisphere form the New World. It is so called because discovered only a few centuries ago. Some geographers call the Old World the Eastern Continent, and the New World the Western Continent or the American Continent.

5. **An island** is a body of land entirely surrounded by water.

Australia, the smallest continent, is much larger than the largest island. The chief distinction between a continent and an island is the difference in size.

- 6. An archipelago is a group of islands.
- 7. A peninsula is a body of land nearly surrounded by water.
  - 8. A cape is a point of land extending into the water.

    A mountainous cape is called a promontory. A cape is usually much smaller than a peninsula.



NATURAL DIVISIONS OF LAND AND WATER.

1.	Island.
2.	Peninsul
3.	Bay.
4.	Strait.

5. Isthmus.6. Archipelago.7. River.8. Delta.

9. Lake. 10. Sound. 11. Hill. 12. Volcano. 13. Mountain. 14. Mountain Range. 15. Table-land. 16. Plain.

17. Shore. 18. Cape. 19. Inlet.

A coast or shore is the land bordering on the water. Coasts are often broken by peninsulas and capes.

9. **An isthmus** is a neck of land connecting two larger bodies of land.

Questions (I.)—1. Of what does the surface of the earth consist? How much is land? How much is water?—2. How is the land surface divided?—3. What is a continent?—4. How many continents are there? How many in the Eastern Hemisphere? Name them. How many in the Western Hemisphere? Name them.—5. What is an island?—6. What is an archipelago?—7. What is a peninsula?—8. What is a cape?—9. What is an islamus?

(II.)—1. Which has the more land, the Northern Hemisphere or the Southern? How many times as much? The Eastern Hemisphere or the Western? How many times as much? What is meant by the land hemisphere?—4. What is meant by the Old World? What other name is given to it by some geographers? What is meant by the New World? Why so called? What other name has it?—5. How does the smallest continent compare with the largest island? What is the chief distinction between a continent and an island?—7. What is a promontory? What is the chief difference between a cape and a peninsula? What is a coast or shore? By what are coasts broken?

### VII.

### ELEVATIONS OF THE LAND.

1. The chief elevations of the land surface are mountains, table-lands or plateaus, and lowland plains.

Mountains and plateaus are sometimes called highlands. The height of elevations is measured from the surface or level of the sea.

2. A mountain is a very high elevation of land.

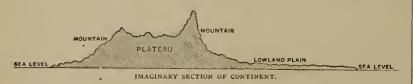
If the elevation is not very high, it is usually called a hill.

The summit of a mountain is its highest point; the base is its foot; the slopes are its sides.

3. A range or chain is a line of mountains or hills.

- 4. **A volcano** is a mountain which sends forth flames, melted rock, clouds of steam, ashes, or other heated substance, from an opening called a crater.
- 5. A table-land or plateau is a broad extent of high land.
  - Table-lands are often crossed or bordered by mountain ranges.

    The breadth of a mountain is generally less than that of a plateau.
- 6. A lowland plain is a broad extent of land not much above the level of the sea.
  - A valley is land between hills or mountains. A desert is a barren tract of land. An oasis is a low fertile spot in a desert.
- 7. The natural divisions of the land are continents and islands. Their shores have peninsulas, capes, and isthmuses; their surfaces have mountains, plateaus, and lowland plains.
  - If any division of land could be cut through from side to side and down to the level of the sea, the outline representing the edges of such a cut is called a section.



Questions (I.)—1. Name the three chief elevations of the land.—2. What is a mountain?—3. A range or chain?—4. A volcano? A crater?—5. A table land or plateau?—6. A lowland plain?—7. What are the natural divisions of the land? What projections have their shores? What elevations have their surfaces?

(II.)—1. What are mountains and plateaus sometimes called? From what are their heights reckoned?—2. What is a hill? What is the summit of a mountain? The base? The slopes?—5. Which is broader, a mountain or a plateau? By what are table-lands sometimes crossed or bordered?—6. What is a valley? A desert? An oasis?—7. What is a section?

### VIII.

### DIVISIONS OF THE WATER.

- 1. The waters on the surface of the earth are divided into ocean waters and drainage waters.
- 2. **The ocean** is the great body of salt water that surrounds all of the continents. Its five principal divisions are also called oceans: namely, the Atlantic, the Pacific, the Indian, the Arctic, and the Antarctic Oceans.
- 3. A sea is a large division of the ocean nearly enclosed by land. The ocean itself is sometimes called the sea.
- 4. A gulf or bay is a body of water in a bend of the coast.
  - As there is but little difference between seas, gulfs, and bays, these names are sometimes given to similar bodies of water. A haven or harbor is a small bay in which ships are safe from storms.
- 5. **A strait** or **channel** is a narrow passage connecting two larger bodies of water.

A sound is a shallow channel or bay.

- 6. An occan current is a great stream of water flowing through the ocean.
- 7. **The drainage waters**, or waters on the surface of the land, are rivers and lakes.
  - 8. A river is a large stream of fresh water.
    - A river flowing into another is called a branch or tributary. The place where a river begins or rises is its source; the place where it flows into a sea, lake, or another river, is its mouth.
  - 9. A lake is a body of water surrounded by land.
- 10. **The natural divisions** of the water are oceans, rivers, and lakes. The smaller divisions or arms of the ocean are called seas, gulfs, bays, sounds, straits, and channels.

Questions (I.)—1. Into what two great divisions may the waters be divided?—2. What is the ocean? To what else is the name given? Name them.—3. What is a sea? What is the ocean sometimes called?—4. What is a gulf or bay?—5. A strait or channel?—6. An ocean current?—7. Which are the drainage waters?—8. What is a river?—9. What is a lake?—10. Name the natural divisions of the water. What are the smaller divisions of the ocean called?

(II.)—4. What three names are sometimes given to similar bodies of water? Why? What is a haven or harbor?—5. What is a sound?—8. What name is given to a river flowing into another? What is the source of a river? The mouth?

### IX.

### DIVISIONS OF GEOGRAPHY.

- 1. Geography may be divided into Mathematical Geography, Physical Geography, and Political Geography.
- 2. **Mathematical Geography** is a description of the form, size, position, motions, circles, and zones of the earth, and of the relative positions of places on its surface.
- 3. **Physical Geography** is a description of the natural divisions of the surface of the earth.
  - It treats, first, of its simplest divisions into land, water, and atmosphere; second, of the position, distribution, and extent of the land and water, and of the great currents in the water and in the atmosphere; third, of the character of the climates in different parts of the earth, and the distribution of minerals, plants, and animals; and, fourth, of the laws, causes, mutual relations, and consequences of these facts, and of many of those of Mathematical Geography.
- 4. **Political Geography** is a description of the nations and peoples of the earth, their social condition, and the countries they inhabit.
  - It includes an account of towns, cities, states, industrial productions, and commerce. The Political Geography of a country is so closely dependent upon its Physical Geography that the two should be studied together.

Questions (I.)—1. How may Geography be divided?—2. What is Mathematical Geography?—3. What is Physical Geography?—4. What is Political Geography?

(II.)—3. Of what does the first part of Physical Geography treat? The second? The third? The fourth?—4. What does Political Geography include? Upon what is it dependent?

### MAP-DRAWING.

### TO THE TEACHER.

Map-drawing, as a branch of the study of Geography, presents itself under two aspects and as two distinct exercises.

First and most important, *Sketching*. This is an exercise by means of which the leading facts of local geography are rapidly and efficiently reviewed in the construction of quickly drawn outline maps, approximately correct, and showing the actual condition of the pupil's knowledge of the location of mountains, rivers, railways, towns, etc. The exercise is best prepared for in the class-room; it can then be gone over at home by the pupil, if thought desirable; and should finally be re-

viewed and repeated in the classroom as the equivalent of a recitation. An illustration of the method is given below. It should be remembered that the chief object of this exercise is not to test the pupil's skill in map-drawing, but his knowledge of location.

The second kind of exercise in map-drawing is that known as Cartography. This is much more elaborate, exact, and deliberate than sketching, and aims to present an accurate copy of some particular map. It is a valuable exercise, training the pupil to close and minute observation both of the principal and of the less important contents of the map, and to careful and artistic manipulation. The simplest and most efficient method of pursuing this exercise is illustrated in the concluding portion of this book.

Where circumstances will permit, it is advisable that the exercises in sketching should precede those in cartography. Those, however, who choose to begin with cartography, and omit sketching until a later stage, may readily do so.

### SKETCHING FOR REVIEW.

Preparatory. — After the map questions relating to any state, let it be Maine, for instance, have been carefully studied, all the pupils of the class should take their slates and pencils and sketch the simple outlines of the state with the map open before them; the sketch should

be drawn upon as large a scale as the size of the slate will conveniently allow.

In the first lessons it will be well to let each pupil be furnished with a slip of stiff paper or card-board, divided into equal parts, to be used in measuring. A model is furnished at the foot of this page. In the second and more important review, in which the map is to be drawn from memory, the measure should not be used. The exercise will then be a sort of free-hand drawing. The work will be quite crude in the first

attempts, but with repetition, practice, and reasonable patience, very neat work can be produced. One or more of the class should draw the map on a large scale upon the blackboard.

First Step.—Teach the pupils to estimate, approximately, of course, the proportion or relation between the length of the state and its breadth, measuring in the direction of the meridians and parallels whenever possible. Let the estimate first be made by the eye only, then stated, and lastly *tested* by the measuring-slip.

Questions.—Is Maine longer from east to west or from north to south? (North to south.) How much longer? (One fourth.)

Second Step.—Lead the pupils to observe the *number* (usually four), direction, and length of the lines bounding the state, and whether they

are straight or curved or otherwise. This step will usually require more time and care than any other.

Questions.—How many lines form the boundary of Maine? (Fire.) How many of them are partly or entirely straight? In what general direction does each lie? Which is the shortest line? (The northern.) Which is the longer boundary, the northwestern or the western? The eastern boundary or the coast line?

Third Step.—Draw the outline boundary.

First draw *lightly* the line of greatest length, A A, and that of greatest breadth, B B; many states are so simple as not to require these lines. Draw the northern boundary; the northwestern; the western; the eastern; the coast. As soon as the third step is complete, it will be well to inspect the work. Do the same at the close of each succeeding step, or even after each separate item.

Fourth Step.—Sketch the mountains, if there are any.

Questions. — What mountains in Maine, and where are they? Draw them

Fifth Step.—Draw the rivers, first noticing the direction of each.

Questions.—What boundary river on the north? Draw or go over it. On the east? Name the three chief rivers in the state. Draw the Penobscot. The Kennebec. The Androscoggin. Two or three chief lakes.

Sixth Step.—Locate the principal cities and towns, beginning with the capital. Use a star (\*) for the capital, and a small circle or dot (o •) for the other cities and towns.

Questions.—What city is the capital? On what river? Locate it. Name and locate the largest city. What city on the Penobscot? On which side of the river? Locate it. Where is Lewiston? Biddeford? (Other cities and towns may be drawn if required.)

Seventh Step.—Draw the chief railroads.

Question.—Between or through what towns and cities is each?

A further step, involving another form of review, is to require the pupils to add initial letters to the several points drawn: *Rivers*—A. R., K. R., P. R., St. J. R., St. C. R. *Citics*—A., P., L., B.



OUTLINE MAP OF THE STATE OF MAINE.

In rapid work, the writing or printing of the full name will take too much time

### PHYSICAL WESTERN HEMISPHERE.

### X.

### QUESTIONS ON THE MAP.

Continents.—What two continents are in the Western Hemisphere? By what isthmus are they connected? What three oceans wash the shores of North America? Which one is on the north? On the east? On the west? What ocean bounds South America on the north and east? On the west? What ocean south?

Islands.—What large island northeast of North America? What island is east of it? What archipelago between Greenland and the continent? What island near the eastern point of North America? What group southeast? What archipelago between North and South America? Which are its two largest islands? What group north of Cuba? What group northeast? What group at the southern end of South America? What group east? What group in the Pacific Ocean near the parallel of twenty north? Of fifty north? Of forty south? What general name is given to the islands of the Pacific?

Peninsulas.—What peninsula in the northwestern part of North America? In the eastern part? In the western part? What two near the island of Cuba?

Capes.—What cape at the southern point of Greenland? At the eastern point of Newfoundland? At the southern point of California? What cape of North America is near Asia? What cape opposite? What cape is the northern point of South America? The eastern point? The southern point?

Mountains.—What chain of mountains in the western part of North America? In the eastern part? In the western part of South America? In the eastern part? On which side of South America are there many volcanoes? (See red dots on the map.) On which side of North America?

Plains and Plateaus.—What plateau in the northern part of North America? What low plain? In the central part? What high plains west of the central plain? What plateau west of the Rocky Mountains? What is the name of its southern part? What plateau in the eastern part of South America? In the northern? In the western? What plains in the southern part? North of the plateau of Guiana? South?

Seas, Gulfs, and Bays.—What bay west of Greenland? What bay in the Arctic Plain? What gulf west of Newfoundland? South of North America? What island and two peninsulas nearly close that gulf? What sea south of the West Indies? Between Alaska and Asia?

Straits.—What strait connects Behring Sea with the Arctic Ocean? At the entrance of Baffin Bay? Of Hudson Bay? Between Cuba and Florida? Between Tierra del Fuego and the continent?

Rivers.—What river flows through the northwestern part of the Arctic Plain? Into what ocean? What river flows into the Gulf of St. Lawrence? From what lakes? From what plain? What other river flows through that plain? Into what gulf? What branch has it? What river of North America flows into the Pacific Ocean? From what plateau? Into what ocean do the rivers of South America flow? Which is the greatest river of South America? Through what plains does it flow? What river north of the Amazon? What river in the southern part of South America?

Ocean Currents.—What current flows from the Gulf of Mexico? Across what ocean? In what direction? What current flows from Baffin Bay? What current northeast of South America? Southeast? West? What current crosses the Pacific near the Equator? Near the parallel of fifty north?

Zones.—What circle crosses the northern part of North America? In what zone is Cuba? The Sandwich Islands? The Mississippi River? In what zones is North America? South America?

### XI.

### REVIEW EXERCISES.

Continents.—How bounded?

MODEL FOR STATING BOUNDARIES.—South America is bounded on the north by the Caribbean Sea, on the east by the Atlantic Ocean, on the south by the Southern Ocean, and on the west by the Pacific Ocean.

North America? South America?

Islands.—In what direction from the nearest land? By what waters surrounded?

MODEL.—Newfoundland is east of North America, and is surrounded by the Gulf of St. Lawrence and the Atlantic Ocean.

Arctic Archipelago? Greenland? Iceland? Newfoundland? Azores? Bermuda Islands? Bahama Islands? West Indies? Cuba? Hayti? Falkland Islands? Tierra del Fuego? Graham Land? South Victoria? New Zealand Islands? Sandwich Islands? Aleutian Islands? Oceanica?

Peninsulas.—From what part of the continent does it project? Into what water, or between what waters?

Model.—California projects from the western part of North America, between the Gulf of California on the east and the Pacific Ocean on the west.

Labrador? Florida? Yucatan? California? Alaska?

Capes.—From what land does it project? From what part of it?
Into what body of water?

Model.—Cape Race projects from the eastern part of Newfoundland into the Atlantic Ocean.

Farewell? Race? St. Lucas? Prince of Wales? Gallinas? Horn? St. Roque? Blanco? East Cape?

Mountains.—In what part of the continent are they? In what directions do they extend?

Model.—Appalachian, in the eastern part of North America, extend northeast and southwest.

Appalachian? Rocky? Brazilian? Andes?

Plains and Plateaus.— Where situated?

Model.—Arctic Plain is in the northern part of North America?

Arctic Plain? The Great Plains? Central Plain? Plains of the Orinoco? Plains of the Amazon? Plains of La Plata? Arctic Plateau? Western Plateau? Mexican Plateau? Plateau of Guiana? Plateau of Brazil? Plateau of Bolivia?

Oceans.—Of what continents does it wash the shores? or, around what pole is it?

Model.—Pacific Ocean washes the western shores of North and South America; Antarctic or Southern Ocean, around the South Pole.

Arctic or Northern? Antarctic or Southern? Atlantic? Pacific?

Seas, Gulfs, and Bays. -- What coast does it indent or wash? Of what ocean or other body of water is it an arm?

Model.—Hudson Bay indents the northeastern coast of North America, and is an arm of the Atlantic Ocean.

Baffin Bay? Hudson Bay? Gulf of St. Lawrence? Gulf of Mexico? Caribbean Sea? Behring Sea?

Straits.—Between what lands? What waters does it connect?

Moder.—Behring Strait, between Asia and North America, connects the Arctic Ocean with Behring Sea.

Behring? Davis? Hudson? Florida? Magellan?

Rivers.—In what continent does it rise? In what part of it? In what mountains? In what direction does it flow? Into what water?

Model.—Missouri River rises in the Rocky Mountains in the western part of North America, and flows southeast into the Mississippi River.

Mackenzie? St. Lawrence? Mississippi? Missouri? Columbia? Orinoco? Amazon? La Plata?

Ocean Currents.—In what ocean? In what part of it? In what direction does it flow?

MODEL.—Brazilian Current, in the southwestern part of the Atlantic Ocean, flows towards the southwest.

Polar? Gulf Stream? Equatorial? Brazilian? Peruvian? Japan Stream?

### WESTERN HEMISPHERE.



### EXPLANATION.

Low Plains.
Plateaus.
Very High Land.
Volcanoes.
Direction of Currents.

[Copyright, 1875, by Harper & Brothers.]

### PHYSICAL EASTERN HEMISPHERE.

### XII.

### QUESTIONS ON THE MAP.

Continents.—What four continents are in the Eastern Hemisphere? Which three are united into one great land-mass? What isthmus between Asia and Africa? Which is the largest of these four continents? The next in size? The smallest? What ocean bounds Europe and Asia on the North? What ocean east of Asia? What three oceans border on Australia? What three continents border on the Indian Ocean? What ocean west of Europe and Africa?

Islands.—What two groups of islands are east of Asia? What archipelago southeast? What four great islands in the Malaysian Archipelago? What island north of Australia? South? Southeast of Africa? Southwest? What group west of Europe? What island northwest? What islands in the Arctic Ocean? What islands west of Africa? Northwest? What lands in the Southern Ocean?

Peninsulas.—What peninsula in the northeastern part of Asia? In the eastern part? Southeastern? Southern? In the southern part of Indo-China? What island south of Hindostan? What peninsula in the southwestern part of Europe? In the northwestern part?

Capes.—What cape at the northern point of Europe? At the northern point of Asia? At the southern point of Malay Peninsula? At the southern point of Hindostan? At the eastern point of Africa? At the southern point? The western point? The northern point?

Mountains.—What mountains in the southern part of Europe? Between Europe and Asia? In the southern part of Asia? For what are the Himalaya Mountains remarkable? (They are the highest in the world.) How high is the highest peak? (About  $5\frac{1}{2}$  miles.) What mountains near the centre of Asia? In the northern part of Africa? In the western part? In the southeastern part of Australia? What archipelago contains many volcanoes?

Plains, Plateaus, and Deserts.—What is the chief plain in Europe? What plain in the north of Asia? What plain south of the Arctic Plain? What plain in Eastern Asia? In Southern Asia? What plateau north of the Himalaya Mountains? South of the Altai? What plateau in the western part of Asia? What one southwest of the plateau of Iran? What other peninsula of Asia contains a plateau? Which continent is nearly covered by plateaus? What desert in the plateau of Mongolia? In what part of Africa is the great desert of Sahara? For what is it remarkable? (It is the largest desert in the world.) In what other part of Africa is there a desert?

Seas, Gulfs, and Bays. - What sea west of Kamtchatka? Of the Japan Islands? Of Corea? Of the Philippine Islands? In the Malaysian Archipelago? West of Hindostan? Of Arabia? Between Africa and Europe? East of the British Islands? What inland sea northeast of the Mediterranean? East of the North Sea? What gulf west of Africa? East of Arabia? What bay east of Hindostan? West of Europe?

Straits.--What strait between Java and Sumatra? Between Tasmania and Australia? Between Australia and New Guinea? At the entrance of the Mediterranean Sea? At the entrance of the Red Sea? What channel between Madagascar and Africa?

Rivers.-What three rivers of Asia flow into the Arctic Ocean? What three rivers rise in Eastern Asia? What river flows into the China Sea? The Bay of Bengal? The Arabian Sea? What river of Africa flows into the Gulf of Guinea? The Atlantic Ocean? The Mediterranean Sea? What river of Europe flows into the Caspian Sea?

Lakes.-What lakes in South Central Africa? What two lakes in Western Asia are called seas? What lake in Australia?

Ocean Currents.—What current flows westward through the Indian Ocean? What current southwest of Africa? Northwest of Europe?

Zones.—What circle crosses the northern part of Asia? What circle crosses the desert of Sahara? What continents does it cross? What great circle crosses Borneo? What continent does it cross? circle crosses Australia? What other continent does it cross? What circle bounds the South Frigid Zone? What lands does it cross? In what zone is Sumatra? Nova Zembla? Cape of Good Hope? The Mediterranean Sea? In what zones is Africa? Asia? Europe? Aus-

### XIII.

### REVIEW EXERCISES.

[For method of recitation, see XI.]

Continents.—How bounded?

Europe? Asia? Africa? Australia?

Islands.—In what direction from the nearest land? By what waters surrounded?

Japan Islands? Malaysian Archipelago? Philippine Islands? Java? Celebes? Sumatra? Borneo? New Guinea? Tasmania? Madagascar? Ceylon? British Islands? Iceland? Spitzbergen? Nova Zembla? Madeira Islands? Canary Islands? St. Helena?

Peninsulas.—From what part of the continent does it project? Into what water, or between what waters?

Kamtchatka? Corea? Indo-China? Malay? Scandinavian? Himdostan? Spanish?

Capes.—From what land does it project? From what part of it? Into what body of water?

North? Northeast? Romania? Comorin? Bon? Good Hope? Guardafui? Verde?

Mountains.—In what part of the continent are they? In what direction do they extend?

Alps? Ural? Altai? Himalaya? Atlas? Kong? Blue?

Plains, Plateaus, and Deserts. - Where situated?

Great plain of Europe? The Steppes? Arctic Plains? Siberian Plains? Plain of China? Plain of the Ganges? Australian Plains? Plateau of Mongolia? Plateau of Thibet? Plateau of Iran? Plateau of Arabia? Desert of Gobi? Arabian Desert? Sahara Desert?

Oceans.—Of what continents does it wash the shores? or, around what pole is it?

Arctic? Pacific? Antarctic? Atlantic? Indian?

Seas, Gulfs, and Bays. - What coasts does it indent or wash? Of

what ocean or other body of water is it an arm?
Okhotsk? Japan? Yellow? China? Java? Bengal? Arabian?
Red? Persian? Guinea? Mediterranean? Black? Biscay? North? Baltic?

Straits.—Between what lands? What waters does it connect? Sunda? Bass? Torres? Gibraltar? Bab el Mandeb? Mozam-

Rivers.—In what continent does it rise? In what part of it? In what mountains? In what direction does it flow? Into what

Obi? Yenisei? Lena? Amoor? Hoang Ho? Yang tse Kiang? Ganges? Cambodia? Indus? Niger? Nile? Congo? Volga? Danube?

Lakes.— Where situated? What outlet has it?

Albert Nyanza? Victoria Nyanza? Caspian Sea? Aral Sea? Eyre?

Ocean Currents.—In what ocean? In what part of it? In what direction does it flow?

Equatorial Current? South Atlantic Current? Gulf Stream?





### EXPLANATION.

Low Plains
Plateaus
Very High Land
Volcanoes
Direction of Currents

### COMPARATIVE PHYSICAL GEOGRAPHY.

### XIV.

### THE CONTINENTS.

MAP OF THE WORLD.



- 1. The Old World has more than twice as much surface as the New World. Its line of direction, or line of greatest length, is from northeast to southwest. The New World extends from northwest to southeast.
- 2. Each of these great land-masses consists of two parts, the larger being to the north. Africa is joined to Asia by the narrow Isthmus of Suez, and South America to North America by the Isthmus of Panama.
  - These two isthmuses are of great commercial importance, because the principal routes connecting the commerce of the great oceans pass across them.
- 3. The southern continents, South America and Africa, are much alike in shape and direction.

Their similarity is somewhat like that of the two hands.

- 4. Each continent widens toward the north and narrows to a point at the south.
- 5. Nearly all the great peninsulas point in a southerly direction.
  - They project from the three northern continents. The principal shore-lines of the continents, nearly all of the great mountain ranges, and most of the great chains of islands lie in a southeasterly or southwesterly direction.
- 6. The three northern continents, North America, Europe, and Asia, are irregular in form. The three southern continents are South America, Africa, and Australia; the first two are peninsular in form.
- 7. The coasts of the northern continents, and particularly those of Europe, are much broken by inland seas. Those of the southern continents are nearly unbroken by peninsulas or by arms of the ocean.
  - Each northern continent has three great peninsulas projecting from its southern border. These peninsulas are curiously alike in some particulars: Indo-China, Greece, and Florida, at the southeast, have each a large archipelago southeast of them;

Arabia, Spain, and California, at the southwest, are very simple in form, and have no such islands; Hindostan, Italy, and the long isthmus of Central America correspond in position.

Questions (I.)—1. Which has the greater surface, the Old World or the New World? How many times as much? What is the line of direction of the Old World? Of the New World?—2. Of what does each of these land-masses consist? Which part is the larger? How is Africa joined to Asia? North America to South America?—3. In what are South America and Africa alike?—4. In what direction does each continent widen? In what direction does it narrow?—5. In what direction do nearly all the great peninsulas point?—6. Name the three northern continents. What is their form? Name the three southern continents. What is their form?—7. How do the coasts of the northern continents differ from those of the southern continents?

(II.)—2. Why are the two isthmuses of great commercial importance?—3. To what may the similarity of South America and Africa be compared?—5. Which continents have nearly all the great peninsulas? In what two directions do the principal shorelines, mountain ranges, and island chains lie?—7. What points of resemblance have the three northern continents?

### XV.

### ISLANDS.

- 1. Nearly all the islands lie in curved chains or in groups. Some are the tops of hills or mountain ranges whose lower parts are under the sea.
  - 2. Islands are of two kinds—continental and oceanic.
- 3. Continental islands lie near the continents of which they appear to have been once a part.

The principal chains of continental islands lie east and southeast of Asia and North America.

4. Oceanic islands are those lying far out in the ocean.

The principal chains of oceanic islands are in the Pacific Ocean.

The Azores and Bermudas are oceanic groups. St. Helena and Ascension are solitary oceanic islands.



VOLCANIC ISLAND.

Volcanic islands are those which have been raised by volcanic forces from the depths of the ocean. They have bold shores and lofty peaks, and may be either continental or oceanic. Most

of the coast islands of Asia, the Galapagos and Sandwich groups of the Pacific, and Iceland, the Azores, Cape Verde, St. Helena, and Ascension of the Atlantic, are volcanic islands.

Coral islands are those composed of coral, a limy substance formed from sea-water by certain small animals, and are found only in the warmer parts of the ocean. They are usually small and low. The Bahamas and Bermudas in the Atlantic and many oceanic chains in the Pacific are coral islands.

Questions (I.)—1. How are most islands arranged? What are some of them?—2. Into what two classes are islands divided?—3. What are continental islands? Where are the principal chains of continental islands?—4. What are oceanic islands? Where are the principal chains?

(II.)—4. Name some oceanic islands. What are volcanic islands? What kind of shores and surfaces have they? To which class do they belong? Name some volcanic islands of the Pacific. Of the Atlantic. What are coral islands? Where found? Of what size? Name some coral islands.

### XVI.

### MOUNTAINS.

- 1. **A mountain system** is a number of nearly parallel ranges covering a wide belt of country.
- 2. The New World has the longest mountain system; its length is about ten thousand miles.
  - It has two principal divisions—the Andes chains in South America, and the Rocky Mountains and parallel chains in North America. Its highest point is in South America, and is about 25,000 feet, or  $4\frac{3}{4}$  miles, above the sea.
- 3. **The chief system** of the Old World begins on the Atlantic shores, and extends in an irregular line to the Pacific. It is about eight thousand miles long, and is composed of many smaller systems.

Among them are the Himalaya Mountains, which are the highest in the world, the Caucasus, and the Alps. The highest point of the Himalaya Mountains is about 29,000 feet, or  $5\frac{1}{2}$  miles, above the sea-level.

These two great systems are not far from the shores of the continents in which they lie. The principal systems of Africa and Australia lie near their eastern coasts.

The tops of many of the great mountain chains are always covered with snow, even in the Torrid Zone.

**4. Volcanoes** are found chiefly in mountainous islands, or in mountain ranges which are near the sea. The great lowland plains have no volcanoes.

The volcanoes of the Western Hemisphere are mostly found in its great mountain systems; those of the Eastern, in the island chains bordering the coasts of Asia. Many of the oceanic islands in the Pacific contain volcanoes. Most of the volcanoes of the world are in the Pacific Ocean or near its borders.

5. **Mountains** are of great importance: they condense a large part of the moisture that falls from the atmosphere as rain or snow; they contain the sources of nearly all

the great rivers of the globe; their cold summits temper the fierce heat of the Torrid Zone; in them are found most of the metals and other minerals so important to the well-being of man.

Questions (I.)—1. What is a mountain system?—2. Where is the longest system? How long is it?—3. Describe the chief system of the Old World. How long is it? Of what is it composed?—4. Where are volcanoes chiefly found? Where are none found?—5. State some of the uses of mountains.

(II.)—2. How many divisions has the great mountain system of America? What chains in each? Where is its highest point? How high is it?—3. Which are the highest mountains in the Old World? How high is their highest peak? What other mountains in the same system? Where are the two great systems? Where is the principal system of Africa? Of Australia? With what are the tops of many of the great mountain chains covered?—4. Where are most of the volcanoes of the Western Hemisphere found? Of the Eastern? What oceanic islands contain volcanoes? Where are most of the volcanoes of the world found?

### XVII.

### PLATEAUS OR TABLE-LANDS.

1. The great plateaus of each continent are in the same regions and lie in the same direction as the chief mountain systems.

These mountains either stand upon the plateaus or form their border walls.

2. The chief plateau belt of North America extends from the isthmus of Tehuantepec to the Arctic Ocean.

Its highest part, the plateau of Mexico, is from 4000 to 8000 feet above the level of the sea. The Rocky Mountains divide these plateaus into two sections: the eastern section is known as the Great Plains; the western section is covered with numerous parallel chains of mountains.

3. The chief plateau belt of South America extends in a band parallel with the western coast.

Its highest and widest part, the plateau of Bolivia, is more than 12,000 feet above the sea. Its edges are formed by two great chains of the Andes. In the eastern part of South America there are low and broad plateaus.

4. The plateaus of Asia are the highest and most extensive in the world.

The plateau of Thibet is the highest; it reaches an elevation of 16,000 feet. It is bordered on the south by the Himalayas.

5. The plateaus of Africa cover nearly the whole of that continent.

The highest is east of the Nile River, and is from 6000 to 7000 feet in elevation. Africa is bordered on nearly every side by mountains. The Atlas, Kong, and the Mountains of the Moon are the principal chains.

6. The plateaus of Australia are comparatively low.

This continent resembles Africa in its almost unbroken coasts and mountain borders.

- 7. Europe has no large plateaus.
- 8. Nearly all deserts are plateaus.

Questions (I.)—1. Where are the great plateaus of each continent found? In what direction do they lie?—2. Where is the chief plateau belt of North America?—3. Of South America?—4. What is said of the plateaus of Asia?—5. What is said of the plateaus of Africa?—6. Of the plateaus of Australia?—7. Of Europe?—8. What is said of deserts?

(II.)—1. What relation have the mountains to the plateaus with which they are connected?—2. What name is given to the highest plateau of North America? How high is it? How do the Rocky Mountains divide these plateaus? What name is given to the eastern section? What is the character of the western section?—3. What name is given to the highest plateau of South America? How high is it? What mountains border the high plateaus of that continent? Where are its low plateaus?—4. What name is given to the highest plateau of Asia? How high is it? What mountains border it?—5. Where is the highest plateau of Africa? How high is it? How is that continent bordered? Name the principal chains.—6. In what respects does Australia resemble Africa?

### XVIII.

### LOWLAND PLAINS.

1. The great lowland plains of the American continents lie between the high plateaus and the coasts of the Atlantic Ocean, from which they are partly separated by low plateaus and mountains.

The great lowland plains of Europe and Asia lie between the high plateaus and the shores of the Arctic Ocean.

These plains are the most extensive in the world. Their greatest length is in the same direction as the principal mountain systems and the belts of plateaus. Smaller but important plains are found in other parts of these four continents.

2. The lowland plains of Australia lie in the central and southern portions of that continent.

The greater part of these plains is yet unexplored.

Africa has no large and important lowland plain.

3. The most fertile soil and the largest navigable rivers are found in the low plains of the Torrid and Temperate Zones.

The greater part of the population of the world, and the chief seats of civilization, are found in these plains. The most densely populated are the plains of China, of the Ganges, and the western part of the great plain of Europe.

More than one third of the population of North America inhabit its central plain.

4. The plains which border the Arctic Ocean are among the coldest regions of the globe.

Questions (I.)—1. Where are the great lowland plains of the American continents? By what are they partly separated from the Atlantic? Where are the great low plains of Europe and Asia?—2. Of Australia? Of Africa?—3. What is said of the plains of the Torrid and Temperate Zones?—4. Of those bordering the Arctic Ocean?

(II.)—1. Which are the most extensive plains in the world? In what direction is their greatest length? Are there are any other important plains in these four continents?—2. What can you say of the lowland plains of Australia?—3. What are found in the plains of the Torrid and Temperate Zones? Name the most densely populated. How much of the population of North America inhabits its central plain?

### XIX.

### THE OCEANS.

- 1. The Pacific Ocean is at least as large as all the other oceans taken together.
  - It is remarkable for the number of its islands and border seas; these seas are enclosed or partly enclosed by curved lines of islands.
- 2. **The Atlantic Ocean** is about half as large as the Pacific.
  - It is remarkable for the many inland seas that branch from it, and for the number of great rivers that flow into it. Its northern half is the chief theatre of the ocean commerce of the world.
- 3. **The Indian Ocean** is much smaller than the Atlantic.

It is remarkable for the fewness of its seas and islands, and for the violence and frequency of its hurricanes.

4. The Arctic Ocean is much the smallest of the oceans.

It is a part of the Atlantic rather than a separate ocean. All the great plains border on the Atlantic and Arctic Oceans.

- 5. The Antarctic or Southern Ocean is not properly a separate ocean, but a combination of the southern parts of the three great oceans.
  - It is remarkable for the intensity of its cold, and for the number and size of its icebergs.

The greater part of the polar oceans, and especially the Antarctic, has never been explored.

Questions (I.)—1. What is said of the size of the Pacific Ocean?—2. Of the Atlantic?—3. Of the Indian?—4. Which is the smallest ocean?—5. Is the Antarctic Ocean a separate ocean? What is it?

(II.)—I. For what is the Pacific Ocean remarkable? By what are the border seas enclosed? Name four of the border seas of the Pacific Ocean. (See maps of hemispheres.)—2. For what is the Atlantic Ocean remarkable? What is said of its commercial importance? Name four inland seas of this ocean. Name two great rivers flowing into it from North America. Three from South America. One from Africa.—3. For what is the Indian Ocean remarkable? Name the two great bays of that ocean.—4. Of what ocean is the Arctic a part? Name the three continents surrounding it. What lands border on these two oceans?—5. For what is the Antarctic Ocean remarkable? Have the polar oceans been explored? Why?

### XX.

### DRAINAGE WATERS.—RIVERS.

1. **The ocean is the source** of all the waters upon the surface of the land.

The winds and the heat of the sun are constantly carrying away invisible vapor from the surface of the ocean; this forms clouds, and falls upon the land as rain or snow. This water leaves the land surface in three ways: first, the greater part is evaporated; second, a part flows directly away, forming lakes, rivers, and smaller streams; third, a part sinks into the soil, and issues again at a lower level as springs.

2. Many large rivers have their sources in the snow-covered mountains of the table-lands.

Most rivers begin at springs, and are enlarged by rains and melted snows, and by other rivers.

3. A river system is a river with its branches.

**A basin** or **valley** is the whole country drained by a river system.

A water-shed is the line of highest land that divides two basins.

In the United States it is sometimes called a divide.

An estuary is a broad mouth of a river. When a river enters the sea by two or more mouths, the land between the mouths is called a delta.

A cañon is a deep and narrow gorge through which a river runs. Rapids are those parts of a river in which the current is very swift. Falls are those parts of a river in which the water flows over a precipice. Falls of small streams are called cascades; of large rivers, cataracts.

4. The rivers in the low plains are the chief natural channels of commerce, especially since the invention of the steamboat, by means of which their swift currents may be ascended. Commerce is less expensive by water than by land.

In the hill countries, rivers whose falls or rapids interrupt navigation furnish valuable water-power for manufacturing purposes.

Some rivers overflow their banks at certain seasons, and by a rich deposit of mud fertilize the low lands through which they run.

Where rivers run through lands which are very dry during the summer, their water is sometimes used to irrigate the soil.

Questions (I.)—1. What is the source of all the waters which are on the surface of the land?—2. Where do many large rivers have their sources?—3. What is a river system? What is a basin or valley? What is a water-shed?—4. State some of the uses of rivers.

(II.)—1. How is water constantly taken from the surface of the ocean? In what form does it fall again? In how many and what ways does it leave the land surface again?—2. At what do most rivers begin? How are they enlarged?—3. What is a divide? An estuary? A delta? A cañon? What are rapids? Falls? Cascades? Cataracts?

### XXI.

### LAKES.-GLACIERS AND ICEBERGS.

- 1. Lakes are of two kinds—salt and fresh.
- 2. A salt lake is one that has no outlet.

Small quantities of salt are washed out of the soil by the rains; if carried to a lake having no outlet, the salt is left in the lake by the evaporation of the water.

3. The plains and plateaus of Asia have the largest salt lakes in the world.

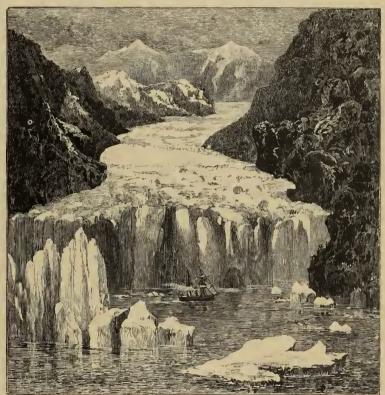
The largest of these are the Caspian and Aral seas.

4. The plains of North America and the plateaus of Southern Africa have the largest fresh-water lakes in the world.

Their principal outlets are the St. Lawrence and Nile Rivers. Titicaca, on the plateau of Bolivia in South America, is the most elevated of the large fresh-water lakes: it is 13,000 feet above the ocean-level.

5. **Glaciers** are vast river-like fields of ice. They are formed from snow, which is solidified by the pressure of its own weight, and by melting and freezing.

They are formed in the high mountain valleys in the regions of perpetual snow. They move very slowly down the valleys—only a few rods in a year. In the Temperate Zones they are found in the highest part of the highest mountains, as in the Alps and the Himalayas. In the Frigid Zones their lower edges project into the sea; the tides and waves here wash away their bases, and the overhanging portions at last break off by their own weight and fall into the sea: they are then called icebergs.



THE ORIGIN OF AN ICEBERG

6. **An iceberg** is a large floating fragment of an arctic or antarctic glacier.

The great glaciers of Greenland are famous for the numerous icebergs which they send off; many have been seen projecting more than 300 feet above the sea, seven eighths of their mass being under water. Icebergs are largest and most numerous in the Antarctic Ocean; they are formed in the unknown lands around the South Pole.

Questions (I.)—1. How many classes of lakes? What are they?—2. What is a salt lake?—3. Where are the largest salt lakes in the world?—4. Where are the largest fresh-water lakes in the world?—5. What are glaciers? How are they formed?—6. What is an iceberg?

(II.)—2. How is a salt lake formed?—3. Name the two largest salt lakes.—4. What are the outlets of the largest fresh-water lakes? Which is the most elevated of the large fresh-water lakes? Where is it? How high?—5. Where are glaciers found? Describe the origin of an iceberg.—6. What can you say of the glaciers and icebergs of Greenland? Of the Antarctic Ocean? Where are they formed?

### XXII.

### OCEAN CURRENTS.

1. An ocean current is a broad stream of water flowing through the ocean.

The great ocean currents are so connected with each other as to form a circulatory system; some of them are of great depth.

2. **Constant currents** are those that always flow in the same direction.

Some of them have been traced many thousands of miles. All the rivers in the world are insignificant when compared with some of these currents. The chief cause of ocean currents is the difference of temperature of the ocean waters in the Torrid and Frigid Zones: the warmer and lighter water flows towards the poles, an equal quantity of the cold and heavier water flowing at the same time towards the Equator. The ocean currents thus assist to cool the tropical and to warm the polar regions.

The direction and velocity of currents are modified, first, by the revolution of the earth on its axis; second, by the constant winds of the Torrid Zone; third, by being turned aside by the shores.

3. **The Equatorial Currents** are the widest and longest of the constant currents.

They are found in the Atlantic and Pacific oceans, and move from east to west.

- 4. The best known and most important current is the Gulf Stream.
  - It begins in a branch of the equatorial current of the Atlantic, sweeps around the Gulf of Mexico, and again enters the Atlantic as a swift and deep stream through the Straits of Florida. It then crosses the Atlantic in a northeasterly course, and, with the winds which sweep over its warm waters, gives a mild climate to Western Europe.
- 5. **The Japan Current** is a current similar to the Gulf Stream, and passes from Japan towards Alaska and California.
- 6. **The Polar Currents** are the cold currents passing from the polar regions towards the Equator.
  - They bring vast quantities of ice from the polar regions. But little is known of the cold currents which flow at the bottom of the ocean. The ocean water at great depths in the Torrid Zone is nearly as cold as that in the Arctic Ocean.
  - The two broad oval spaces between the Equatorial Currents on the south and the Gulf Stream and the Japan Current on the north are called Sargasso or Grassy seas, because covered with floating sea-weeds.

Questions (I.)—1. What is an ocean current?—2. What are constant currents?—3 Which are the greatest of the constant currents?—4. Which is the best known current?—5. Describe the Japan Current.—6. Describe the Polar Currents.

(11.)—1. How are the ocean currents connected? What is said of their depth?—2. How far have some been traced? How do they compare with rivers? What is their chief cause? Of what use are they? How are their direction and velocity modified?—3. Where are the Equatorial Currents found? What is their general direction?—4. Describe the origin and course of the Gulf Stream. How does it affect the climate of Western Europe?—6. What do the Polar Currents bring from the polar regions? What is said of the deep cold currents? Of the deep water in the Torrid Zone? Where are the Sargasso or Grassy seas? Why so called?

### XXIII.

### WINDS.

1. **The atmosphere** covers the earth to a height of about fifty miles.

The upper portions of the atmosphere press upon the lower, and make them denser. Nearly all the moisture and all animal and vegetable life are found within three and a half miles of the level of the sea. Above this the thinness and dryness of the atmosphere, and the intense cold, render plant life, and consequently animal life, impossible.

The mountains of Thibet have been ascended above four miles.

A balloon has reached an elevation of five and three-quarter miles. These are the greatest heights ever reached by man. In both cases the suffering was very great.

- 2. **Heat** causes air, first, to expand and become lighter; and, second, to absorb and render invisible large quantities of water. **Cold** produces opposite effects.
- 3. **The heat of the sun** produces ascending currents of hot air, particularly in the Torrid Zone; other air flows in below to fill the space.
  - 4. Winds are currents of air.

The currents from the polar regions tend at first directly towards the Equator; as they pass towards and into the Torrid Zone, the revolution of the earth on its axis causes them to turn more and more towards the west: these currents are then called the Trade Winds.

5. **The Trade Winds** are constant winds between the parallels of 30° north and south latitude, and always blow from an easterly direction. They carry immense quantities of vapor from the Atlantic, Pacific, and Indian oceans.

The masses of heated air rise some miles from the surface of the earth, and flow over in two sets of currents, one towards each pole, to fill the places left vacant by the Polar Currents; they gradually cool and settle towards the surface, striking it beyond the parallels of 30°: they are then known as the Return Trade Winds, or Counter Trade Winds.

6. The Counter Trade Winds are the prevalent winds beyond the thirtieth parallels. In the Northern Hemisphere they blow from the southwest, and in the Southern from the northwest.

The Trade Winds and Counter Trade Winds are similar to the ocean currents both in cause and general direction.

Questions (I.)—1. To what height does the atmosphere extend?—2. What are the effects of heat upon air? Of cold?—3. What are the effects of the sun's heat? In what zone is this effect most marked? What other effect follows?—4. What are winds?—5. What and where are the Trade Winds? What is their direction? What do they carry?—6. What and where are the Counter Trade Winds? In what direction do they blow?

(II.)—1. How do the upper portions of the atmosphere affect the lower? What are found only within three and a half miles of the level of the sea? Why is there no life above this height? What are the greatest heights ever reached by man? What was the effect?—4. In what direction do the Polar Currents at first flow? In what direction afterwards? What causes this change? What are they then called?—5. Describe the course of the ascending currents of the Trade Winds. Where do they again strike the surface of the earth? What are they then called?—6. In what respects are the Trade Winds similar to the ocean currents?

### XXIV.

### CLIMATE.

- 1. **The climate** of a country is the general condition of its atmosphere in regard to heat and moisture.
- 2. Climate depends upon distance from the Equator, elevation above the sea level, the prevailing winds and ocean currents, and distance from the sea.
  - 3. The Frigid Zones have an intensely cold climate.
- 4. The low plains in and near the Torrid Zone are very hot. If they are open to the ocean winds, their climate is moist; if not, it is dry.
- 5. The high plateaus within and near the tropics have a mild, spring-like climate.
- 6. The high mountains in the same regions have their tops covered with perpetual snow.

The lower limit of perpetual snow is called the snow-line; it is of less and less elevation towards the poles.

7. Winds and ocean currents modify climate. The winds have by far the more marked effect.

When a warm ocean wind strikes the sides of a high mountain chain, it passes up the slope, growing colder and gradually losing its moisture in rain or snow as it ascends, and at last passes over the range and down the opposite slope as a cold and dry wind.

The warm and moist Return Trade Winds of the Atlantic blow upon Western Europe, and the warm waters of the Gulf Stream reach its shores; in the same latitude, the shores of Greenland and Labrador are washed by the icy waters of the arctic currents and swept by the polar winds. The one region has a mild climate, and is occupied by the most enlightened nations of the world; the others are frozen wastes, sparsely inhabited by degraded savages and a few European traders.

8. **The rain-fall** of a country is the quantity of water that falls upon it as rain or snow.

In the Torrid Zone the average annual fall is about 100 inches, but in some places in that zone it is four or five times as much. In the Temperate Zones it is from 35 to 40 inches, or little more than one third as much as in the Torrid Zone. In the Frigid Zones it is much less.

The rain-fall usually diminishes as the distance from the sea increases.

9. **The tropical rain-belt** is a broad movable belt of rain extending around the world. It is about 1000 miles wide from north to south.

The sun is vertical to a place when it is directly over that place.

This can happen only in the Torrid Zone.

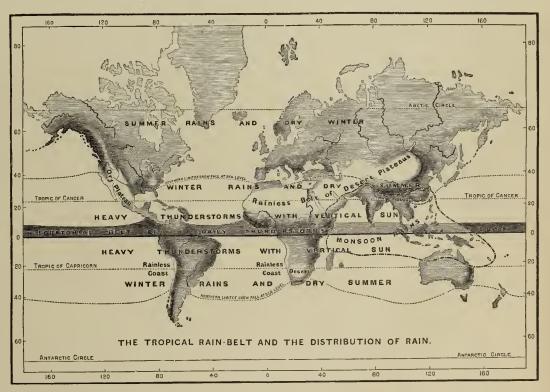
As the sun passes from one tropic to the other, the parts of the zone over which it is vertical have their greatest heat, and consequently their greatest evaporation. In those regions which are open to the Trade Winds, a heavy thunder-storm begins early in the afternoon, and continues until near sunset; the sky then becomes cloudless until the next day about the same hour. After some weeks, the sun being no longer vertical, the rains become less frequent, and at last cease for months, till the sun again returns.

The only seasons of the Torrid Zone are the wet season while under the rain-belt, and the dry season during its absence. Places near the Equator have therefore two rainy seasons and two dry seasons; other parts of the Torrid Zone have one rainy season and one much longer dry season.

The heat and moisture of the tropical rain-belt produce the most luxuriant vegetation in the world.

A great belt of deserts stretches across the Old World from the Atlantic nearly to the Pacific Ocean: it is caused by the absence of rain-bearing winds.

These rains of the Torrid Zone are called periodical rains; the more irregular ones of the Temperate Zones are called variable rains.



Questions (I.)—1. What is climate?—2. Upon what does it depend?—3. What is the climate of the Frigid Zones?—4. Of the low plains in the Torrid Zone? When is it moist? When dry?—5. Of the high plateaus in that zone?—6. Of the high mountains?—7. What effect have winds and ocean currents? Which have the greater effect?—8. What is the rain-fall of a country?—9. The tropical rain-belt? How wide is it?

(II.)—6. What is the snow-line? How does its height vary?—7. Describe the effects of high mountains upon ocean winds. What two principal causes modify the climate of Western Europe? Of Greenland and Labrador? What are the effects?—8. What is the average annual rain-fall in the Torrid Zone? In the Temperate Zones? In the Frigid Zones? What effect has distance from the sea?—9. When is a place said to have a vertical sun? In what zone can this occur? How does it affect the heat? The evaporation? Describe the tropical rains. Which are the only seasons in the Torrid Zone? What seasons at the Equator? In other parts of that zone? What effects do the heat and moisture produce? Where is the great belt of deserts? By what is it caused? What are periodical rains? Variable rains? Where do they occur?

### XXV.

### RACES OF MEN.

- 1. The number of inhabitants upon the earth is estimated at about 1380 millions.
- 2. They are divided into five great **races**—the Caucasian, the Mongol, the Ethiopian, the Malay, and the American or Indian.
- 3. **The Caucasian** or white race is the most widely spread. It occupies Western Asia, Europe, Northern Africa, and large parts of North and South America and Australia.
  - It is the most restless, intelligent, and powerful of the races, and includes all the great historic nations.
- 4. **The Mongol** or yellow race is found chiefly in Eastern and Northern Asia.
- 5. **The Ethiopian** or black race is found chiefly in Central and Southern Africa.
- 6. **The Malay** or brown race inhabits Southeastern Asia and most of the islands of the Great Archipelago and the Pacific.
- 7. **The American** or red race inhabits portions of the American Continents from Cape Horn to the Arctic Ocean.

The Caucasian and Mongol races are about equal in numbers. Together they constitute more than four fifths of the whole human family. The Ethiopian race comprises about one seventh, the Malay about one twenty-fifth, and the American about one one-hundredth of mankind.

Questions (I.)—1. What is the number of inhabitants upon the earth?—2. Into how many races are they divided? What are they?—3. Which is most widely spread? What regions does it occupy?—4. Where is the Mongol or yellow race found?—5. The Ethiopian or black race?—6. The Malay or brown race?—7. The American or red race?

(II.)—3. For what is the Caucasian race distinguished?—7. What part of mankind is comprised in each race?

### POLITICAL GEOGRAPHY.

### XXVI.

### CONDITIONS OF SOCIETY.

- 1. **Nations and tribes** may be divided, in respect to their social condition, into five classes: savage, barbarous, half civilized, civilized, and enlightened.
- 2. **Savages** are those who live in tribes, and obtain their food by hunting and fishing.
- 3. **Barbarians** are those who possess flocks and herds, and practice a rude agriculture.

Those who live in tents, like the Bedouin Arabs, are called nomads.

4. Half-civilized nations are those that depend

chiefly upon agriculture, have made considerable advance in the mechanic arts, and have towns and cities.

- 5. **Civilized nations** are those that engage in commerce, practice the art of writing, and have made considerable progress in knowledge and morality.
- 6. **Enlightened nations** are those civilized nations that possess a thorough division of labor, have established general systems of education, and have made the greatest progress in knowledge and morality.

Many nations are partly in two or more of these classes. The enlightened and civilized nations are nearly all Caucasian.

Questions (I.)—1. Into how many classes may nations be divided in respect to social condition? What are they?—2. What are savages?—3. What are barbarians?—4. What are half-civilized nations?—5. What are civilized nations?—6. What are enlightened nations?

(II.)—3. What are nomads? Name some nomads.—6. Does each nation belong exclusively to one of these classes? To which race do most of the civilized and enlightened nations belong?

### XXVII.

### GOVERNMENT.

- 1. The principal forms of government are the **republican** and the **monarchical**.
- 2. A republic is a country governed by men who are chosen by the people. The chief magistrate is usually called a president.

Nearly all the governments of the New World are republican.

3. **A monarchy** is a country in which one person succeeds to the chief power by inheritance, and holds it for life.

Nearly all the governments of the Old World are monarchical. An unlimited monarchy or despotism is one in which the will of the monarch is the supreme law.

A limited monarchy is one in which the power of the ruler is limited by a system of laws called a constitution.

- 4. **A kingdom** is a monarchy governed by a king or queen.
- 5. **An empire** is a monarchy, usually of great extent. Most empires are unlimited monarchies.

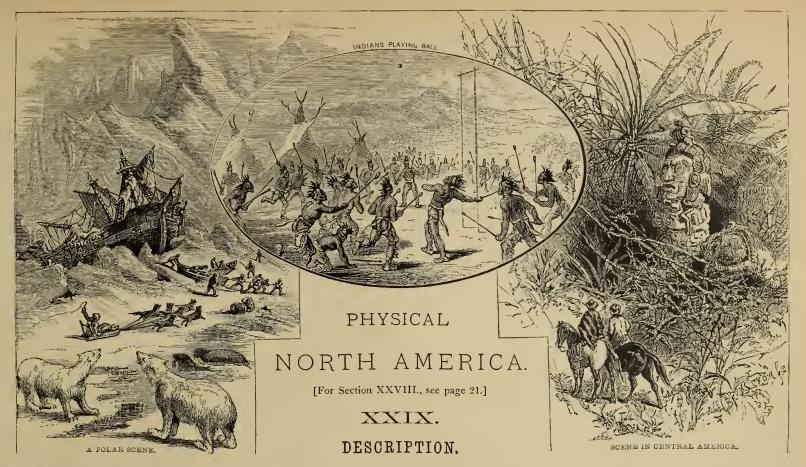
The sovereign is called an emperor, sultan, shah, czar, or mikado.

- 6. **The capital** of a country is the seat of its government.
  - 7. The metropolis is the largest city.

Questions (I.)—1. What are the principal forms of government?—2. What is a republic? What is the title of its chief magistrate?—3. What is a monarchy?—4. What is a kingdom?—5. An empire? Is it limited or unlimited?—6. What is the capital of a country?—7. The metropolis?

(II.)—2. What is the form of most of the governments of the New World?—3. Of the Old World? What is an unlimited monarchy? What is a limited monarchy?

5. What titles have the sovereigns of empires?



- 1. The surface of North America is naturally divided into four parts: the Western Highland, the Eastern Highland, the Low Central Plain, and the Atlantic Plain.
- 2. **The Western Highland,** or Great Plateau Belt, extends from the Arctic Ocean to the Isthmus of Tehuantepec. The Sierra Nevada and Cascade ranges are on its western border, and the Rocky Mountains divide it into two nearly equal parts.

These ranges are the highest in North America, and reach their greatest elevation, about 14,000 to 15,000 feet, in the broad middle region of the table-land; the table-land itself is quite low in the north, but rises gradually to nearly 8000 feet in the plateau of Mexico. At the ends of this highland are many volcanoes. Of these, St. Elias in the north and Popocatepetl in the south are the highest peaks on the continent.

The long and mountainous isthmus of Central America may be regarded as a continuation of this plateau belt.

3. **The Eastern Highland** extends from Labrador nearly to the Gulf of Mexico. Its mountains are the low ranges of the Appalachian system.

The highest peaks are from 6000 to 6700 feet in elevation. It has very little table-land.

- 4. **The Atlantic Plain** is the strip of low land between the Appalachian Mountains and the ocean.
- 5. **The Low Central Plain** lies between the two highlands, and extends from the Arctic Ocean to the Gulf of Mexico.

It is crossed nearly midway by a low swell called the Height of Land, which divides it into two gentle and opposite slopes: the

northern slope is the Arctic Plain; nearly all of the other slope or Southern Plain, lies in the basin or valley of the Mississippi.

Questions (I.)—1. How is the surface of North America naturally divided? Name them.—2. Where is the Western Highland? What and where are its principal mountains?—3. Where is the Eastern Highland? What mountains has it?—4. Where is the Atlantic Plain?—5. The Low Central Plain?

(II.)—2. Which are the highest ranges in North America? Where is their greatest elevation? How high are they? Describe the table-land. Where are volcanoes found? Name two. For what remarkable? What is said of Central America?—3. How high are the highest peaks of the Appalachian system? Has the Eastern Highland any table-land?—5. By what is the Low Central Plain divided? Into what? What name has each? In what basin is the southern slope?

### XXX.

### CLIMATE, VEGETATION, AND ANIMALS.

1. The West Indies, Central America, and a large part of Mexico have a tropical or constantly warm climate.

The season of tropical rains lasts many weeks, the rest of the year being dry.

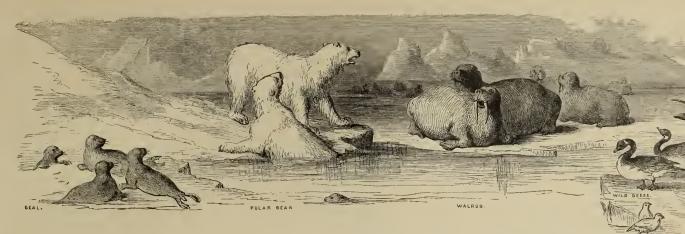
- The vegetation is luxuriant—coffee, sugar, maize, cotton, and tobacco are extensively cultivated, and the banana, pine-apple, lemon, orange, and other tropical fruits are produced with little labor. European grains are grown on the plateaus. The forests abound in mahogany, rose-wood, and palm-trees.
- 2. The northern third of the continent has a very cold climate, excepting a strip along the western coast.

The Polar Current passes along the eastern coast to Newfoundland.

Ice nearly closes the broad entrance to Baffin Bay, and Hudson Bay is open only about six weeks in the year.

The western coasts, from Alaska to the Columbia River, have a





### XXVIII.

### QUESTIONS ON THE MAP.

Outlines.—What three oceans wash the shores of North America? What great island northeast of the continent? What archipelago between them? What is the general direction of the Arctic coast? What great bay breaks this coast? What island at its entrance? What strait leads to that bay? What island near the eastern point of the continent? What gulf and strait cut it off? What is the general direction of the Atlantic coast? What two peninsulas partly enclose the Gulf of Mexico? What strait and what channel lead to that gulf? What island at the entrance? In what archipelago? What ocean current passes through these waters? What is the general direction of the Pacific coast? What peninsula near its northern extremity? What peninsula and gulf break the southwest shore? What long isthmus connects North and South America? Between what smaller isthmuses does it extend?

High Surface. — What two great highlands in North America? Which is the greater? What is its general direction? At what ocean does it end on the north? At what isthmus on the south? (Tehuantepec.) What mountains near its western border? What high plain forms its eastern part? What mountains separate this plain from the rest of the highlands? What high plateau in the southern part of the highland? What plateau basin near the centre? In what direction does the Eastern Highland extend? What mountain system does it contain? Near which coast of North America are there volcanoes? Near what river is the central group? Where is the greatest group? Where the northern? Name one in each group. What volcano in Iceland?

Lowlands and Drainage.—What plain between the two highlands? What ocean north of it? What gulf south? What name is given to its northern portion? What name to its southern portion? What low swell of land separates the Southern from the Arctic Plain? What low plateau north of the Arctic Plain? What rivers drain the Arctic Plain? What lakes connected with them? What river drains the greater part of the Southern Plain? Name its four chief branches? What chain of lakes in the Southern Plain? What river drains them? What lowland plain between the Eastern Highland and the Atlantic Ocean? Name the chief rivers which drain the Western Highland.

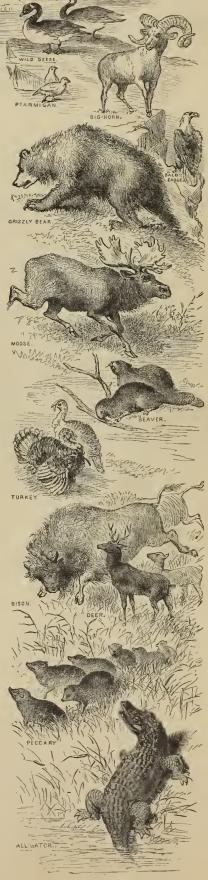
much milder climate and frequent rains, the effect of the warm ocean currents and counter trade-winds of the Pacific.

3. The remaining portions of the continent have a more varied climate—warm in the south, colder in the north, and very dry in the Great Highland.

Moist winds from the Gulf of Mexico and the Atlantic Ocean cause frequent rains in the Southern and Atlantic Plains and in the Eastern Highland. Excepting the prairies, these regions were originally one vast forest of oak, chestnut, pine, and other trees, of which a large part in the lowlands has been cleared away. This forest extends into the southern part of the Arctic Plain, where the trees are mostly pines and firs; farther north the trees are small, and at last disappear, and mosses and lichens are the only vegetation.

In winter the tropical rain-belt passes to the south and the counter trade-winds of the Pacific shift in the same direction (see pages 16 and 17). This gives a rainy season of several months to the region between the Pacific Ocean and the Rocky Mountains. The greater part of the moisture falls between the summits of the Sierra Nevada and the coast, and is a chief cause of the vast crops of wheat and other grains grown in that region. The moist regions in the Rocky Mountains, on the western slopes of the Sierra Nevada, and from the Columbia River to Alaska, are covered with forests of gigantic pines, cedars, and other evergreens.

4. The polar bear, reindeer, musk-ox, moose, walrus, grizzly bear, and many furbearing animals, are found in the northern parts of the continent, and great herds of the bison, or buffalo, roam over the high plains east of the Rocky Mountains. Among other wild animals are the deer, wolf, fox, beaver, and alligator. Great numbers of



domesticated animals, such as the horse, ox, sheep, and hog, are possessed by the civilized inhabitants; these were originally introduced from Europe.

5. Cotton is the chief production of the lowlands near the Gulf of Mexico; and maize of the central, and wheat of the northern portions of the valley of the Mississippi.

The rain-fall upon the slopes of the lofty mountains bordering the Great Highland leaves but little moisture to be carried over to the table-lands; these, including those parts of the plateau of Mexico that are not visited by the tropical rain-belt, are therefore extremely dry: the whole region is nearly destitute of vege-

tation—the sage-bush and cactus are the principal plants which the parched soil produces.

Questions (I.)—1. What parts of North America have a tropical climate?—2. What parts have a cold climate? What exception to this?—3. What is the climate of the rest of the continent?—4. What wild animals are found in the Arctic Plain? In the high western plains? What other wild animals are found? What is said of domesticated animals?—5. Where is cotton the chief production? Maize? Wheat?

(II.)—1. What is said of the rain-fall in the tropical climates? Of the vegetation? What staples are cultivated? What fruits? What grains? Name some of the forest trees.—2. How do the polar currents affect the northeastern coasts of the continent? What is the climate of the western coast north of the Columbia River? Why?—3. What are the chief sources of the rains of the southeastern portions of the continent? Describe these regions. What is said of the vegetation of the Arctic Plain? What is the cause of the rainy season in the region between the Pacific Ocean and the Rocky Mountains? What is its effect? What is said of the forests of the moist regions?—5. Why is the Great Highland so dry? How does this affect the vegetation?

### POLITICAL NORTH AMERICA.

### XXXI.

### OUESTIONS ON THE MAP.

[Capital cities are printed in Gothic type, as WASHINGTON.]

Countries.—What two countries occupy the greater part of North America? Which is farther north? What country northeast of British America? Northwest? Southwest of the United States? Southeast of Mexico? Name the countries of North America.

Danish America.—To what country in Europe does it belong? (Denmark.) Name its two principal islands. What is the capital of Iceland? Which is the most northern town in North America?

British America.—To what country in Europe does it belong? (*Great Britain*.) What islands off the western coast of British America? What peninsula in the eastern part? In the southeast? Name four capes of British America. What mountains in the western part?

What name is given to the greater part of British America? (*The Dominion of Canada*.) What is the capital? What two cities on the St. Lawrence River? What city in Nova Scotia?

United States.—What country north of the United States? Southwest? What gulf south? What islands southeast of Florida? Name the capes on the east coast of the United States. What cape at the southeastern point of the United States? What capes on the west coast?

What mountains west of the Sierra Nevada? What two bays on the east coast of the United States? What river flows into the Atlantic Ocean near Sandy Hook? What river between Mexico and the United States? Into what does it flow? What mountains does the Columbia break through? What lake between the Colorado and the Columbia?

What two cities near the head of Chesapeake Bay? What is Washington? (*The capital of the United States*.) What city northeast of Baltimore? Northeast of Philadelphia? Northeast of New York? At the mouth of the Mississippi? Near the mouth of the Missouri? On Lake Michigan? On the Pacific coast? On the north bank of the Ohio?

To what country does Alaska belong? What is the name of its chief river? Into what does it flow? What island in the southern part? What town on it?

Mexico.—What peninsula and gulf in the northwest of Mexico? What cape at the end of the peninsula? What mountains in Northern Mexico? What is the capital? What volcano near it? What city east of Mexico?

Central America.—What waters wash the shores of Central America? What lake in Central America? What city in the northwest? Name the four principal islands in the West Indies? What city in Cuba?

### XXXII.

### REVIEW EXERCISES.

[For models, see Review of Western Hemisphere, page 9.]

Countries. — Where is it? How bounded? What is the capital?

Model.—Mexico is in the southwestern part of North America. It is bounded on the north by the United States, on the east by the Gulf of Mexico, on the south by Central America and the Pacific Ocean, on the west by the Pacific. The capital city is Mexico.

Danish America? British America? United States? Mexico? Central America?

Islands.—Arctic Archipelago? Greenland, D.? Southampton? Iceland, D.? Cape Breton, B.? Newfoundland, B.? Bermuda Islands, B.? West Indies? Jamaica, B.? Bahama Islands, B.? Cuba, S.? Hayti, I.? Porto Rico, S.? Vancouver, B.? Queen Charlotte, B.? Sitka, U. S.?

NOTE.—The countries to which they belong are thus indicated: Denmark, D.; Great Britain, B.; Spain, S.; United States, U.S.; Independent, I.

Peninsulas.—Labrador? Nova Scotia? Florida? Yucatan? Alaska? California?

Capes.—Farewell? Race? Sable, N.? Cod? Sandy Hook? Hatteras? Sable, S.? St. Lucas? Prince of Wales? Mendocino? Flattery?

Isthmuses. — What countries does it connect?

Tehuantepec? Panama? Isthmus of Central America?

Mountains.—Appalachian? Rocky? Sierra Madre? Sierra Nevada? Cascade? Coast ranges? Popocatepetl (v.)? Hecla (v.)?

Seas, Gulfs, and Bays.—Baffin? Hudson? James? St. Lawrence? Delaware? Chesapeake? Mexico? Campeachy? Honduras? Behring? Caribbean? California?

Straits.—Davis? Hudson? Belle Isle? Florida? Behring?

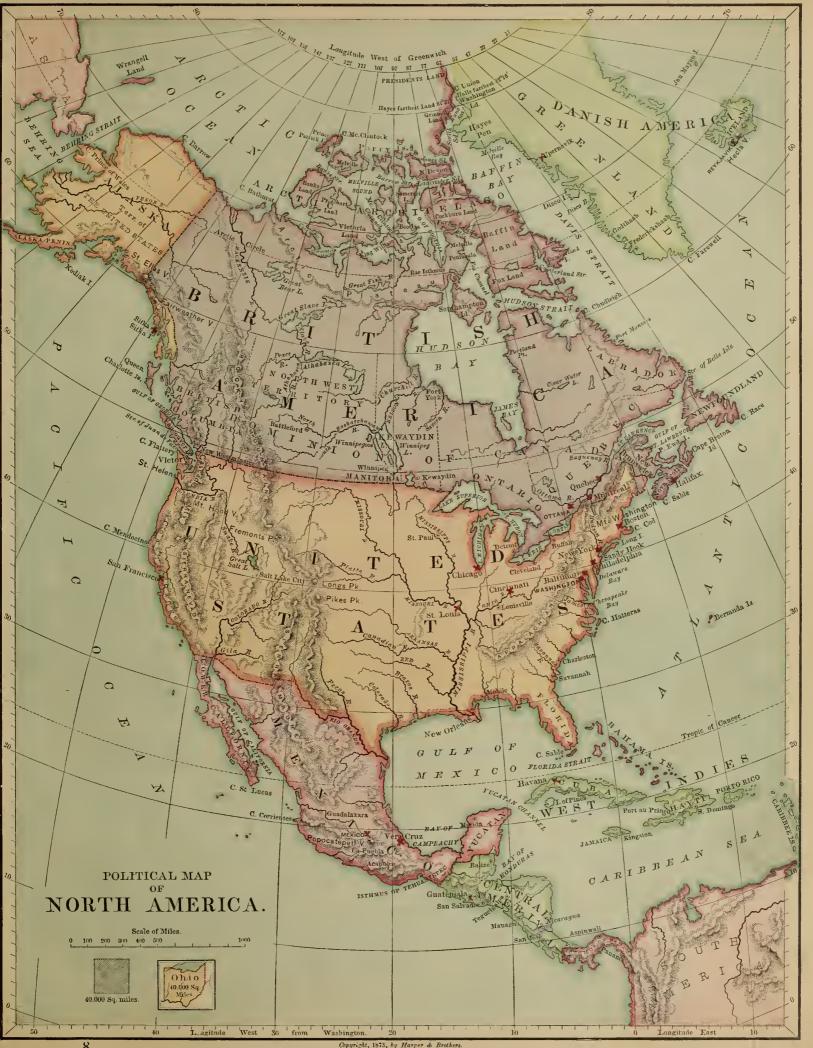
Rivers.—Yukon? Mackenzie? Churchill? Nelson? Severn? St. Lawrence? Hudson? Mississippi? Missouri? Arkansas? Ohio? Rio Grande? Red? Colorado? Columbia?

Lakes. — Where situated? What outlet has it?

Great Bear? Great Slave? Athabasca? Winnipeg? Superior? Michigan? Huron? Erie? Ontario? Great Salt? Nicaragua?

Cities and Towns.—In what country is it? In what part of it? On or near what water?

Reykjavik? Upernavik? Halifax? Ottawa? Montreal? Quebec? Washington? Philadelphia? Boston? New York? Baltimore? New Orleans? Cincinnati? St. Louis? Chicago? San Francisco? Mexico? Vera Cruz? Guatemala? Havana?



### S STATE Д UNITE SICAL > 工 Д

## OUESTIONS ON THE MAP. XXXIII.

Which branches rise in the Western Highland? Name the of this highland? What plain between the two highlands? branches. Which branch rises in the Eastern Highland? western half.) What smaller highland in the eastern half? (See Physical Map of North America.) What plain east What great river drains the Central Plain? Name its chief Which half of the United States is a highland?

are the prairie regions?

What plains in the eastern part of the Western High-land? What rivers cross the Great Plains? What is the character of these plains? What name have they in the South? What peculiarity of winter climate in the North?

in the Great Basin? (Why is it salt?) What river drains What mountain system crosses the Western Highland from north to south near its centre? What mountains near its western border? What two plateaus between these systems? What cross-range separates them? What large lake

great lakes in the northern part of the Central Plain. Where | the northern plateaus? The southern? What lowland basin west of the Sierra Nevada?

What are the staple agricultural productions in the southern part of the Central Plain? In the central part? the shores of Lake Superior? In the central part of the In the northern part? What minerals and metals are found in the Eastern Highland? In the Western Highland? On Central Plain? Where is salt obtained? Lumber? Petroleum? Coal? Iron?

What plants characterize the dry parts of the Great Highland?

### NOIL SCRIP Ш

### XXXX

# WESTERN HALF OF THE UNITED STATES.

# 1. The western half of the United States is a broad highland. It is divided by the Rocky Mountains into two nearly equal sections. It extends from Canada on the north to the Gulf of Mexico on the south, and from the Atlantic Ocean

# 2. East of these mountains it is a gently decending slope known as the Great Plains.

to the Pacific. Its average breadth from north to

1. The United States occupies the middle

part of North America.

POSITION, AREA, AND SURFACE

XXXIV.

south is about 1300 miles; its average length from

east to west is about 2500 miles.

2. The area of the United States is rather

more than 3,000,000 square miles, not including Alaska, which contains over 500,000 square

increase in elevation from the east, until at the base St. Lawrence, including the Great Lakes, being only about four inches. The Red and the Arkansas A large part of this region is a succession of long rolls of the mountains they are from 5000 to 6000 feet Excepting the Missouri and the Yellowstone, the rivers which cross these plains are too swift and feet to the mile, that of the Mississippi, Ohio, like waves of the ocean. These plains gradually high, or twice the average height of the Alleghanies. too shallow to be navigated, their average fall being are navigable in the eastern lowland.

divisions of widely different character—the

high western half and the low eastern half.

REMARK.—Each of these has several important and well-marked natural subdivisions, which will be made the basis for arranging the states into groups for convenience of study. (See page 29.)

3. The surface presents two nearly equal

as the Plateau Belt, is bordered by the Rocky Mountains on the east, and on the west by the low Coast ranges of the shores of the Pacific. 3. The western half of the highland, known United States?-2. What is the area?-3. How is the surface divided? States? The eastern and western limits? What is the average breadth?

Questions (I.)-1. What part of North America is occupied by the

(II.)-1. What are the northern and southern limits of the United

The average length?

Between these, and near the Coast ranges, are the high chains known as the Sierra Nevada and Cascade Mountains. The Sierra Nevada, Cascade, and Rocky Mountains are the loftiest ranges in North America. They average from 9000 to 12,000 feet, with many peaks of over 14,000 feet.

The elevated tract within these lofty mountain walls has three principal plateaus. It is ribbed with numerous short parallel mountain chains, and has been likened to a sea filled with waves many thousand feet high.

# The Great Basin occupies the central part of the Plateau Belt.

It encloses the Great Salt Lake and other salt lakes from the Colorado Plateau by the lofty range of the which have no outlet to the ocean. It is separated Wahsatch Mountains, and is from 3000 to 4000 feet above the level of the sea.

# The Colorado Plateau occupies the southeastern part.

It is from 6000 to 7000 feet high

# The plain of the Columbia, or Spokan Plateau, occupies the northern part.

It is about 2000 feet above the Pacific Ocean, and about 1009 feet above the Columbia River.



4. Three large and rapid rivers **drain** the greater part of this Plateau Belt: the Columbia River on the north breaks through the lofty Cascade range, and flows into the Pacific; the Colorado on the south reaches the Gulf of California after passing through a number of great cañons, which are a series of the most frightful mountain gorges in the world; the Rio Grande flows from the mountains bordering the Colorado Plateau through a long, narrow, and elevated valley to the Gulf of Mexico.

The beds of nearly all the rivers of the entire highland region are far below the general level of the country through which they flow.

5. The Western Highland has a warm and very dry climate.

The warm southwest winds from the Pacific discharge most of their moisture as rain or snow on the high cold slopes and summits of the Sierra Nevada and Cascade ranges, and much of the remaining portion upon the lofty sides and tops of the Rocky Mountains. The plateaus are consequently dry and barren, while the coast regions have abundant rain and, particularly towards the north, are covered with dense forests. In like manner, the winds from the Atlantic and the Gulf of Mexico lose their moisture before they penetrate so far inland, and in consequence a large part of the Great Plains at the foot of the Rocky Mountains is one of the most desolate and arid regions of the continent. The cactus and the sage-bush are the characteristic vegetation; they indicate a very dry climate. Wherever the streams from the melting snows of the mountains can be used for irrigation abundant crops can be raised, but more than four fifths of the entire highland is hopelessly barren.

6. The chief wealth of the Western Highland is in the exhaustless mines of gold, silver, and other valuable minerals with which the entire mountain district abounds.

Nowhere else on the globe is there known to be so extensive a deposit of the precious metals. There are hundreds of thousands of square miles rich with ores of gold and silver.

7. The most remarkable animal is the bison, or American buffalo.

Vast herds of these animals, sometimes numbering scores of thousands, roam from one end of the Great Plains to the other, feeding on the short dried buffalo-grass, the growth of the brief spring rains.

8. Between the Western Highland and the Pacific lies the small rich lowland of the California Basin.

Questions (I.)—1. What is the character of the western half of the United States? By what and how is it divided?—2. What and where are the Great Plains?—3. What is the western half of the highland called? What mountains border it? What high mountains parallel and close to the Coast ranges? Where is the Great Basin? Where is the Colorado Plateau? Where is the plain of the Columbia?—4. How many great rivers drain the Plateau Belt? What is said of the Columbia? Of the Colorado? What are the cañons? Which is the third great river? What is said of most of the river beds?—5. What is the general character of the climate of the Western Highland?—6. In what is the chief wealth of the highland?—7. Which is the most remarkable animal?—8. What and where is the California Basin?

(II.)—2. What is said of a large part of the Great Plains? Where are the plains highest? How high are they? Which of their rivers are navigable? Which are not? Why?—3. Which are the highest mountains in North America? How high are they? How many principal plateaus? With what is the whole tract ribbed? To what has it been likened? What does the Great Basin enclose? By what separated from the Colorado Plateau? How high is it? How high is the Colorado Plateau? How high is the plain of the Columbia?—5. What kind of a climate has the Plateau Belt of the Western Highland? Why? The Great Plains? Why? The Coast regions? Why? What plants are characteristic? What do such plants indicate? What is said of irrigation? What is the source of the water that may be used for this purpose? What portion of the region is barren?—6. What is said of the quantity of gold and silver?—7. What is said of the buffaloes and their food?

### XXXVI.

### EASTERN HALF OF THE UNITED STATES.

1. **The eastern half** of the United States presents a strong contrast to the western half. It is fertile and well watered throughout.

It contains the Eastern Highland and two important lowland plains.

2. The Eastern Highland is small and low in comparison with the Western.

It consists of the several parallel ranges of the Appalachian system, and extends from the Dominion of Canada almost to the Gulf of Mexico. Its highest peaks are about as high as the plains at the foot of the Rocky Mountains. It contains many fertile elevated valleys, but no extensive plateaus.

This highland is rich in water-power and in mines of coal and iron. At its nearest approach to the Atlantic coast it is intersected by a remarkable depression, which contains the valleys of the Hudson and the Mohawk, and forms the most important natural highway of commerce on the whole continent.

- 3. The Eastern Highland divides the lowlands into two unequal plains—the Atlantic Plain on the east, and the Great Central or Mississippi Plain on the west.
- 4. The Great Central Plain lies between the two highlands.
  - It extends from the Gulf of Mexico, where it joins the Atlantic Plain, to the Great Lakes, where it unites with a narrow belt of lowland in the St. Lawrence Valley.
  - The Valley of the Mississippi includes not only most of the Great Central Plain, but all of the land between the crests of the Rocky Mountains on one side and those of the Alleghanies on the other. It therefore embraces a large part of both highlands. It has been likened to a broad trough, the Mississippi lying in the lowest part.
- 5. The Mississippi and its branches together constitute the most extensive system of navigated rivers in the world.

The Amazon system, in South America, is larger, but is as yet but little navigated.

The Missouri is by far the most important of the tributaries, being longer than the entire course of the Mississippi itself, and, like it, navigable almost to its source. 6. The Atlantic Plain is a long belt of lowland between the Eastern Highland and the ocean.

It is widest at the south, but narrows rapidly towards the mouth of the Hudson River, where it almost disappears. Farther east it again widens to the Gulf of St. Lawrence.

The rivers of the Atlantic Plain cross it at right angles to the line of the highland, in which they have their sources.

Most of them are navigable till interrupted by falls or rapids at some distance from the sea. These falls furnish valuable waterpower, and have determined the location of many important cities.

The Atlantic Plain is drained by numerous short, separate, and parallel rivers, and all the rest of the country by a few great river systems.

7. The climate of the low eastern half of the United

States is in general much cooler than that of the Western Highland in the same latitude.

Frequent rains are brought at all seasons by the moist winds from the Gulf of Mexico, the Atlantic, and the Great Lakes. The rain-fall on the Atlantic coast increases towards the south; on the Pacific coast towards the north; Lower California in Mexico is almost rainless. The winters of the eastern half are long and severe in the north, but mild in the south; the summers are generally hot.

8. The fertile soil, warm summers, abundant rains, and great range of latitude make the eastern half of the United States, in the quantity, variety, and value of its agricultural productions, the richest large section of the globe inhabited by a single nation.

The value of these advantages is greatly increased by the other physical conditions already considered. The average fall of the Mississippi, the Missouri, and their chief branches in the Central Plain, is only about four inches to the mile; that of the St. Lawrence, including the Great Lakes, is still less: this opens the whole region to steam navigation. The generally level face of the country makes it easy to construct railroads, canals, and common roads. Of railways there were in 1874 about 70,000 miles in operation, or nearly as many as in all the rest of the world. It will therefore be seen that—

- 9. The physical geography of the eastern half of the United States gives it agricultural and commercial advantages unequalled by those of any other country on the globe.
- 10. **The eastern half** of the United States may be divided into two regions differing remarkably in vegetation, in consequence of difference in rain-fall.

Dense forests cover the Atlantic Plain, the Eastern Highland, and the neighboring parts of the Great Central Plain, except where cleared for the purpose of cultivation.

If from Toledo on Lake Erie two lines be drawn, one to Galveston on the Gulf of Mexico, and the other to the head-waters of the Red River of the North, nearly all the forests in the United States east of the Cascade Mountains will be east of these lines.

The southern portions of both plains constitute the region of abundant summer showers; without these cotton could not be cultivated. Rice, sugar-cane, Indian corn, and tobacco are also characteristic agricultural productions. (See Rain Map.)

Immense prairies occupy the rest of the Great Central Plain.

The prairie region is broad in the north and narrow in the

It has long and frequent summer droughts. These do n

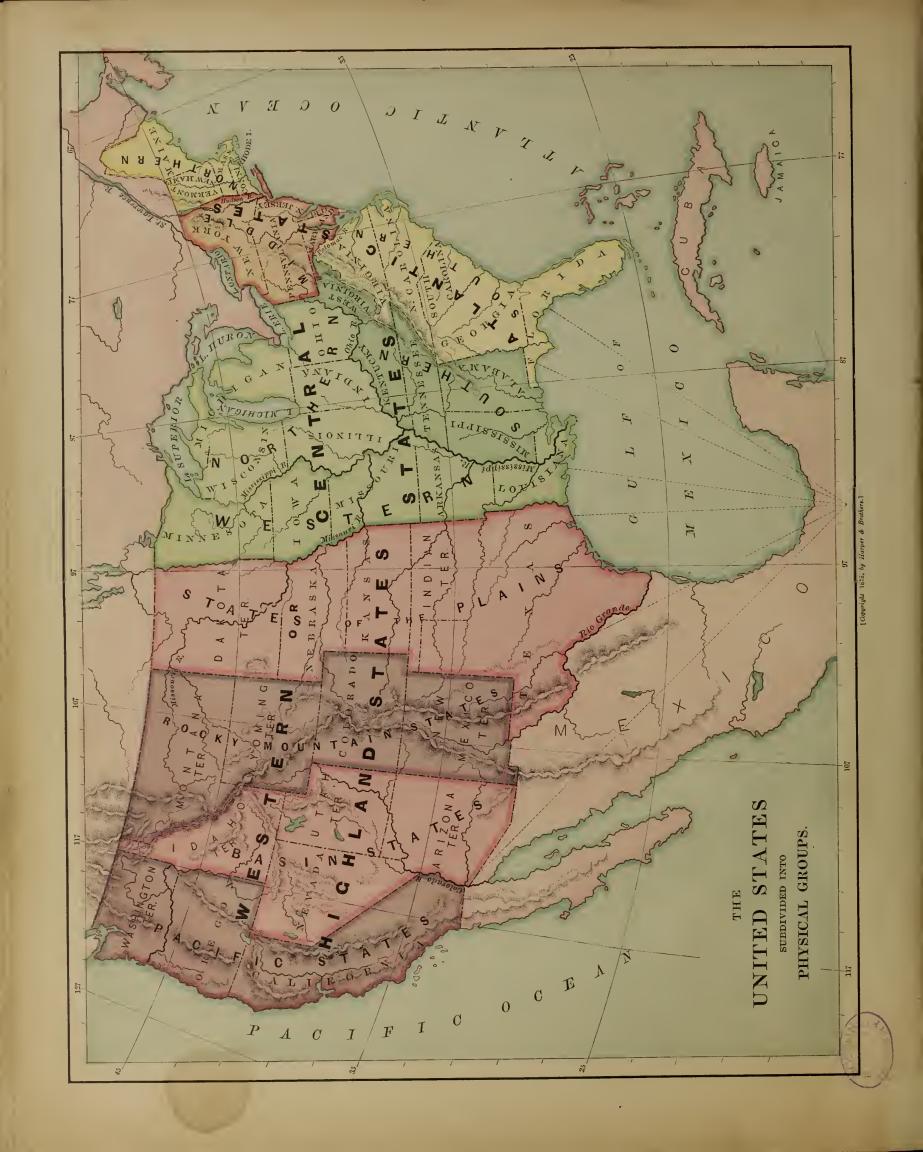


vent the extensive cultivation of wheat and other grains, which are produced in enormous quantities. The prairies are rapidly being converted into farms covered with hedge-rows, orchards, and forest trees.

11. Large wild animals, such as wolves, wild-cats, panthers, bears, and deer, once abounded. Though still found in some districts, they are greatly reduced in numbers. The country now contains millions of domesticated animals, among which are cattle, sheep, swine, and horses.

Questions (I.)—1. What is the character of the eastern half of the United States? In what two particulars? What subdivisions does it contain?—2. How does the Eastern Highland compare with the Western? In what is it remarkably rich? By what is it intersected? What valleys in this depression? What does it form?—3. How does this highland divide the lowlands? What name is given to each?—4. Where is the Great Central Plain?—5. What is said of the Mississippi River? Of the Missouri River?—6. What and where is the Atlantic Plain? How do its rivers cross it?—7. What is said of the climate of the eastern half of the United States?—

[For the remaining questions on this section, see page 29.]



[Questions on Section XXXVI.-Continued from page 27.]

8. What four things make it one of the richest portions of the world?

—9. What is said of its agricultural and commercial advantages?—10.

How may it be divided in regard to vegetation? Where are the forest regions? The prairie regions?—11. What is said of wild animals? Of domesticated animals?

(II.)-2. Of what does the Eastern Highland consist? What is its extent? What is said of its peaks? What does it contain?-4. What

is the extent of the Great Central Plain? In what valley does it mostly lie? What else does the Mississippi Valley include? To what has it been likened?—5. What is said of the Amazon system?—6. Where is the Atlantic Plain widest? Where narrowest? What is said of the navigation of its rivers? Of what use are these falls? In what respect does the drainage of this plain differ from that of other portions of the country?—7. What cause the frequent rains in the low eastern half of the United States? In what direction does the rain-fall increase on the standard coast? On the Pacific coast? What part is almost rainless?

What is said of the winters? Of the summers?—8. What is said of the average fall of the Mississippi and its branches? Of the St. Lawrence? What is the effect of this? What advantage results from the level face of the country? How many miles of railways in 1874?—10. What two lines separate the treeless regions of the West from the forest regions of the East? What important production particularly depends upon frequent showers? What are the other agricultural productions? What is the form of the prairie region? What is said of its climate? What are the staple productions? What change are the prairies undergoing?

# POLITICAL UNITED STATES.

# XXXVII. DIVISIONS AND SUBDIVISIONS OF UNITED STATES,

THE

1. For convenience of study, the United States may be divided into sections and groups.

2. This division is based upon certain facts of the physical geography of the country:

First. One half of the country is low, the other half high.

Second. The lines of the coasts, mountains, plateaus, and of the Mississippi River, lie in a general north and south direction. These lines divide the country into seven nearly parallel physical belts; two of these belts are east of the Mississippi River, and five of them are west of it.

Third. The Ohio River, the Potomac River, and the Chesapeake Bay form a well-marked line that divides the two eastern belts into groups of states which have widely different climatic, industrial, and social peculiarities.

Fourth. The northern part of the most eastern belt is again divided by the line of the Hudson River and Lake Champlain.

	I	LOW HALF.	H.				HIGH HALF.	HALF.	
	ATLANTIC STATES.		מ	CENTRAL STATES.	ró	Δ	WESTERN or HIGHLAND STATES.	HLAND STAT	TES.
NORTH ATLANTIC STATES.	MIDDLE ATLANTIC STATES.	SOUTH ATLANTIC STATES.	NORTH CENTRAL STATES.	SOUTH SOUTH SOUTH WEST ATLANTIC STATES. CENTRAL STATES.	WEST CENTRAL STATES.		STATES OF THE ROCKY MOUNTAIN PLAINS. STATES.	BASIN STATES.	PACIFIC STATES.
1. Maine.	l. New York.	1. Virginia.	1. Ohio.	1. West Virginia. 1. Minnesota. 1. Dakota T. 1. Montana T.	1. Minnesota.	1. Dakota T.	1. Montana T.	1. Idaho T. 1. Alaska.	1. Alaska.
2. New Hampshire. 2. New Jersey.	2. New Jersey.	2. North Carolina. 2. Indiana.	2. Indiana.	2. Kentucky.	2. Iowa.	2. Nebraska.	2. Nebraska. 2. Wyoming T.	2. Nevada.	2. Washington T.
3. Vermont.	3. Pennsylvania.	3. South Carolina. 3. Illinois.	3. Illinois.	3. Tennessee.	3. Missouri.	3. Kansas.	3. Colorado.	3. Utah T. 3. Oregon.	3. Oregon.
4. Massachusetts.	4. Delaware.	4. Georgia.	4. Wisconsin. 4. Alabama.	4. Alabama.	4. Arkansas.		4. New Mexico T. 4. Arizona T. 4. California.	4. Arrizona T.	4. California.
5. Rhode Island.	5. Maryland.	5. Florida.	5. Michigan.	5. Mississippi.	5. Louisiana. 5. Texas.				
6. Connecticut.	(Dist. of Columbia.)								

Nore.—The groupings by threes, fours, and fives will assist in memorizing and locating. The North Atlantic States are often called the Eastern or New England States; the Middle Atlantic States, the Middle Atlantic States, the Middle Atlantic States, the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States, the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States, the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States, the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States are often called the Eastern or New England States; the Middle Atlantic States are often called the Eastern or New England States are often called the Eastern or New En Many other terms in frequent the five South Atlantic States and the five South Central States, together with Arkansas, Louisiana, and Texas, the Southern States; and the rest, the Western States. use require no explanation; as, the Gulf States, Lake States, Mississippi States, Alleghany States, Cotton States, etc. For the sake of convenience the territories are grouped with the states in this table,

3. There are thirty-eight states, ten territories, and one federal district, called the District of Columbia.

All but seven of the states are in the low half,
All the territories are in the high half.

Nore.—The District of Columbia covers only 60 square miles, and is not represented on the map.

what is this division based? What is the first fact? The second? How do these lines divide the country? How many of these belts are east of the Mississippi? How many west of it? What is the third fact? What further division of the most eastern belt? Which half of the country contains the greater number of states? Into what two parts may the low half be divided? Which contains one more state than the other? Into how many and what groups may the Atlantic in States be divided? How many states in each? Into how many and what groups may the Central States be divided? How many states in many states in

each? Into how many and what groups may the Western States be divided? How many states in each? Name the North Atlantic States. The Middle Atlantic. The South Atlantic. The South Atlantic. The Pasins. The South Central. The West Central. The States of the Plains. The Rocky Mountain States. The Basin States. The Pacific States.—

3. How many states are there? How many territories? How many federal districts? What is it called? How many of the states are in the low half? In which half are the territories? What is a territory? (See page 35.) What large territory is not shown upon this map? (Alaska.)



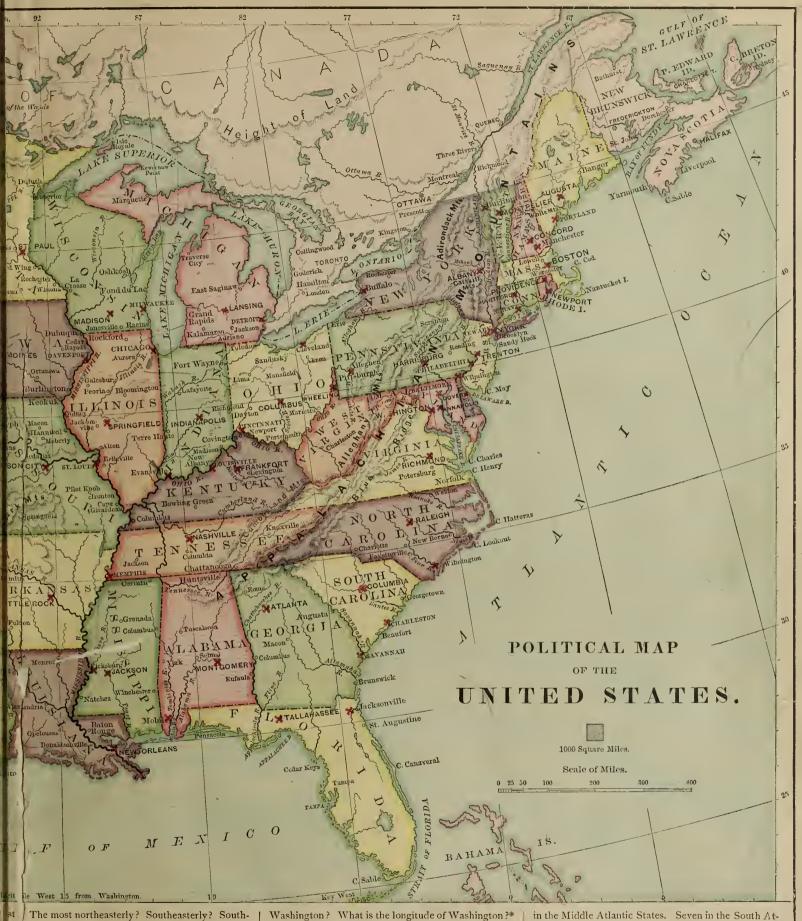
### QUESTIONS ON THE MAP.

What group of states lies farthest east? What is the capital of each? Where situated? Name one other large city in each. Where situated? Which of these states has two capitals? Name the capital and one or two other cities in each of the Middle Atlantic States. In the South Atlantic States. In the North Central States. In the South Central. In the

West Central. In the States of the Plains. In the Rocky Mountain States. In the Basin States. In the Pacific States. Which of these cities are on or near the Atlantic Ocean? The Gulf of Mexico? On the Great Lakes? On the Ohio River? On the Mississippi River? On the Missouri River? In or near the Rocky Mountains? Between the Rocky Mountains and the Sierra Nevada and Cascade Mountains? West of these last chains?

In what direction from Indianapolis is Louis \"e In what direction from Indianapolis is Louis ("e? Cincinnati? Pittsburgh? Cleveland? Detroit? hicago? Milwaukee? In what direction from Chicago is Milwaukee? Davenport? St. Paul? Omaha? Buffalo? In what direction from St. Louis is Omaha? Evansville? Memphis? Louisville? Denver? In what direction from New Orleans is Galveston? In bile? Vicksburg? Montgomery?

Which is the largest state or territory? The small-



The most northeasterly? Southeasterly? Southeasterly? Southwesterly? Which state the longest sea coast? Lake coast? What states separated by the Mississippi River? By the Ohio iv er? Missouri River?

What parallel bounds the United States on the \$\frac{1}{4}\cdot^2\$. On the south? (25°.) In what longifier from Greenwich is its eastern point? Its western the western with the western states are crossed by the meridian of

Washington? What is the longitude of Washington?\* Of Boston? New York? Philadelphia? Charleston? Cincinnati? Chicago? St. Louis? New Orleans? What cities on or near the parallel 40° N.? In what zone is the United States?

What is the general direction of the rivers east of the Appalachian Mountains? Which is the largest Atlantic river of the North Atlantic States? Name three

\* Use longitude from Greenwich.

in the Middle Atlantic States. Seven in the South Atlantic. Three flowing into the Gulf of Mexico east of the Mississippi River. Five west of it. Name four eastern branches of the Mississippi River. Five western branches. Four southern branches of the Ohio River. Three northern branches. Three western branches of the Missouri. Two branches of the Columbia. The chief branch of the Colorado, Two rivers in California. What lake between Vermont and New York?

& Brothers.)

### XXXVIII.

### REVIEW OF POLITICAL MAP OF UNITED STATES.

Bound the state. Name the capital. The largest city.

### THE LOW HALF.

	Capital. Largest City.
	[ 1. Maine Augusta Portland.
	2. New HampshireConcordManchester.
Northern	3. Vermont Montpelier Burlington.
Division.	4. MassachusettsBostonBoston.
DIVISION.	5 Rhode Island (Providence)
	5. Rhode Island Providence Newport Providence.
	6. ConnecticutHartfordNew Haven.
	(I. New York Albany New York.
B#2331.	2. New JerseyTrentonNewark.
Middle Division.	3. Pennsylvania HarrisburgPhiladelphia.
Division.	4. Delaware Dover Wilmington.
	5. MarylandAnnapolisBaltimore.
	1. Virginia Richmond Richmond.
	2. North CarolinaRaleighWilmington.
Southern	3. South CarolinaColumbiaCharleston.
Division.	4. Georgia Atlanta Savannah.
	5. FloridaTallahasseeJacksonville.
	- o. 1 fortua 1 anamassee jacksonville.
	CENTRAL STATES.
ſ	1. Ohio ColumbusCincinnati.
Northern	2. Indiana Indianapolis Indianapolis.
Division.	3. IllinoisSpringfieldChicago.
	4. Wisconsin Madison Milwaukee.
(	5. MichiganLansingDetroit.
(	1. West VirginiaWheelingWheeling.
Southern	2. KentuckyFrankfortLouisville.
Division.	3. Tennessee Nashville Memphis.
DIVISION.	4. Alabama Montgomery Mobile.
l	5. Mississippi Jackson Vicksburg.
(	I. Minnesota St. Paul St. Paul
	2. IowaDes Moines Davenport.
Western	3. Missouri Jefferson CitySt. Louis.
Division.	4. ArkansasLittle RockLittle Rock.
	5. Louisiana: New Orleans New Orleans.
	orientsvew Offeans.

### THE HIGH HALF.

	WESTERN OF HIGHLAND STATES.	
States of the Plains.	1. Dakota N. J. J. Yankton. Yankton. 2. Nebraska Lincoln	ı.
Dool	4. Indian T Tahlequah Galveston.  5. Texas Austin Galveston.  1. Montana T. A. Helena Helena.	
Rocky Mountain States.	3. ColoradoDenverDenverSanta FéSanta Fé	
Basin States.	1. Idaho 18. L. Boise City Boise City. 2. Nevada Carson City Virginia. 3. Utah T Salt Lake City. Salt Lake City. 4. Arizona T Prescott Tucson.	ty.
Pacific States.	1. Alaska T	0,

### Mountains.—Where situated?

Appalachian? White? Adirondack? Catskill? Alleghany? Blue Ridge? Cumberland? Rocky? Wahsatch? Sierra Nevada? Cascade? Coast range?

Rivers.—Where does it rise? In what direction does it flow? Through what states? Into what body of water?

ATLANTIC SYSTEM.—St. Lawrence? Connecticut? Hudson? Delaware? Susquehanna? Potomac? James? Roanoke? Cape Fear? Santee? Savannah? Altamaha?

GULF System.—Appalachicola? Mobile? Pearl? Mississippi? Sabine? Trinity? Brazos? Colorado? Rio Grande?

MISSISSIPPI SYSTEM.—Yazoo? Ohio? Illinois? Wisconsin? Minnesota? Des Moines? Missouri? Arkansas? Red?

Oню System.—Tennessee? Cumberland? Kentucky? Monongahela? Alleghany? Scioto? Wabash?

MISSOURI SYSTEM.—Yellowstone? Platte? Kansas?

Pacific System.—Columbia? Willamette? Snake? Sacramento? San Joaquin? Colorado? Gila?

Lakes.— Where situated?

St. Lawrence System.—Champlain? Ontario? Erie? Huron? Michigan? Superior?

### CITIES HAVING A POPULATION OF MORE THAN 20,000 BY THE CENSUS OF 1870.

New York, N. Y 942,992	Milwaukee, Wis 71,440	Paterson, N. J	Salem, Mass 24,117
Philadelphia, Pa 674,022	Albany, N.Y 69,422	Kansas City, Mo 32,260	Ouinov III
Brooklyn, N. Y 396,099	Providence, R.I 68,904		Quincy, Ill 24,052
St. Louis, Mo 310,864	Rochester N.V.	Mobile, Ala 32,034	Manchester, N. H 23,536
Chicago, Ill 298,977	Rochester, N. Y 62,386	Toledo, O 31,854	Harrisburg, Pa 23,104
	Allegheny, Pa 53,180	Portland, Me 31,413	Trenton, N. J 22,874
Baltimore, Md 267,354	Richmond, Va 51,038	Columbus, O 31,274	Peoria, Ill 22,849
Boston, Mass 250,526	New Haven, Conn 50,840	Wilmington, Del 30,841	Evansville, Ind 21,830
Cincinnati, O 216,239	Charleston, S. C 48,956	Dayton, O 30,473	Atlanta, Ga 21,789
New Orleans, La 191,418	Indianapolis, Ind 48,244	Lawrence, Mass 28,921	New Podford Mars
San Francisco, Cal 149,473	Troy, N. Y 46,465		New Bedford, Mass 21,320
Buffalo, N. Y 117,714		Utica, N. Y	Oswego, N. Y 20,910
Washington, D.C 109,199	Syracuse, N. Y 43,051	Charlestown, Mass.* 28,323	Elizabeth, N. J 20,832
Name N. J. 109,199	Worcester, Mass 41,105	Savannah, Ga 28,233	North Providence, R. I. 20,495
Newark, N. J 105,059	Lowell, Mass 40,928	Lynn, Mass 28,233	Hoboken, N. J 20,297
Louisville, Ky 100,753	Memphis, Tenn 40,226	Fall River, Mass 26,766	Lancaster, Pa 20,233
Cleveland, O 92,829	Cambridge, Mass 39,634	Springfield, Mass 26,703	Poughkeepsie, N. Y 20,080
Pittsburgh, Pa 86,076	Hartford, Conn 37,180	Nashville, Tenn 25,865	Camden N I
Jersey City, N. J 82,546	Scranton, Pa 35,092		Camden, N. J 20,045
Detroit, Mich 79,577		Covington, Ky 24,505	Davenport, Iowa 20,038
10,011	Reading, Pa 33,930	* Charlestown, Mass., is now a part of Boston.	St. Paul, Minn 20,030

Questions.—How many cities had a population of more than 100,000 in 1870? Less than 100,000? Less than 50,000? Less than 50,000? Less than 50,000?



### POLITICAL UNITED STATES.

### XXXIX.

### DESCRIPTION.

- 1. The United States consists of thirty-eight states and ten territories united under a general government.
- 2. **The population** in 1870 was about 39,000,000. Nearly 37,000,000 were in the low and fertile eastern half of the country; and, of the remainder, only a little over a million were west of the Rocky Mountains.
  - 3. The white race numbered about 34,000,000.

They are chiefly the descendants of emigrants from England, Ireland, and Germany. Negroes and mulattoes, the descendants of slaves brought from Africa, numbered nearly 5,000,000. Of Indians there were about 350,000; they are nearly all in the Western Highland. The Chinese numbered about 64,000.

4. Agriculture is the leading industry. Its chief seats are the Central and Atlantic Plains and the California Basin.

Among the principal agricultural products are the grains, which, in the order of their latitude, are rice, maize, wheat, rye, oats, and barley; maize is the most abundant, and wheat the next. The other chief products in the same order are sugar, cotton, tobacco, hemp, hay, and potatoes; of these cotton is commercially the most important.

5. **Grazing** is an important occupation in the agricultural regions.

The prairie and maize districts of the Central Plains furnish

large quantities of live stock, beef, pork, and wool. The chief supplies of butter and cheese are from the northern half of the Eastern Highland.

6. **Mining** is an industry of great and growing importance.

The principal mines of coal and iron are in the Eastern Highland; those of gold and silver in the mountains of the Western Highland; those of lead in Nevada, Utah, and the valley of the Upper Mississippi; and those of copper on the shores of Lake Superior. Agriculture, grazing, and mining supply most of the raw materials for manufactures.

7. **Manufacturing** industry has its chief seats in the states north of the Potomac and the Ohio. This is because of their abundant water-power, fuel, and labor. The principal manufactures are cotton and woollen goods, leather, tools and machinery, flour, lumber, and salt.

**Fishing** is a leading interest in some of the New England States.

- 8. Commerce is of two kinds—domestic and foreign. **The domestic commerce** of the United States is the distribution within its own limits of imported articles and domestic manufactures in exchange for agricultural, grazing, mining, and forest products.
- 9. Three great water routes to the sea and many lines of railway are the principal channels of this commerce.

The first water route is by the Great Lakes and the St. Lawrence to the ocean.

The second water route is by the Great Lakes, the Erie Canal, and the Hudson River to New York. This is the principal commercial route of the continent.

The port of New York is remarkable for the peculiar advantages of its position and for its excellent harbor. It is the chief natural doorway to the populous eastern half of the United States. It lies at the outlet of a narrow valley which is the only deep cleft and water-way entirely crossing the Appalachian Highland. By the broad and deep Hudson and the canal through the Mohawk Valley it has easy access to the group of inland seas known as the Great Lakes. By the Champlain and Hudson Canal it connects with the Lower St. Lawrence.

Through this valley the tide of emigration from Europe and the Atlantic States has rolled for the last forty years, spreading out over the fertile plains south of the Great Lakes, and changing a wilderness into the home of industrious millions. As one of the results of their industry, the commerce of this region already greatly exceeds in value the entire foreign commerce of the nation.

The third water route is by the Mississippi and its branches to New Orleans. By this route the flour, pork, beef, coal, and machinery of the North find a market in the Cotton States and the West Indies.

All these water routes radiate from or converge towards the low plains of the Upper Mississippi and its branches, so rich in grains and live stock.



CANAL AND LOCKS.

10. The railway routes are much more numerous and complicated.

The principal lake-ports, sea-ports, and other cities are connected by railroads. These railroads and their branches cover the low half of the country, and especially its northern part, like a network of iron. The navigation of the Great Lakes and the St. Lawrence is prevented for several months of each year by ice: this gives still greater importance to the railway system. One great railroad across the Western Highland already unites the commercial system of the East with that of the Pacific coast, and others are in process of construction.

Thousands of vessels ply between the principal ports, and thus complete the means for the transportation of goods, passengers, and mails. This coasting trade is much greater than the entire foreign commerce.



LIGHT-HOUSE AND PILOT-BOATS.

At the entrance of harbors, on capes, and at dangerous shoals of the ocean and the lakes, the General Government maintains light-houses to guide and warn vessels at night.

Thousands of miles of telegraph wires convey the information by which this great commercial system is regulated, and the newspapers promptly report the state of distant markets.

Domestic commerce is the chief means by which the different parts of the United States are firmly and peaceably united to each other through mutual interests and mutual dependence.

It is itself dependent upon the physical geography of the country.

11. **Foreign commerce** is the exchange of commodities between different countries. The foreign commerce of the United States is chiefly with England, Germany, and France in Europe; with Canada, the West Indies, and Brazil in America; and with China and Japan in Asia.

12. The principal exports are cotton, breadstuffs, provisions, petroleum, gold, and tobacco. The greater part, especially of the cotton, goes to England. South America and the West Indies take large amounts of provisions, flour, lumber, and other manufactures.

13. **The leading imports**, and the principal countries from which they come, are dry goods from England and France, sugar from the West Indies, coffee from Brazil, hides from South America, tea from China and Japan, and iron and tin from England.

The greater part of the foreign commerce centres in the sea-ports of the northern half of the Atlantic coast; these have the best harbors. At least two thirds of all the imports and nearly one half of all the exports of the United States pass through the port of New York.

Other leading sea-ports are Boston, Baltimore, Philadelphia, New Orleans, and San Francisco.

This foreign commerce is carried on chiefly by means of large steam vessels. It is in large part directed and controlled by means of several submarine telegraph lines, the cables lying upon the bed of the ocean. One line is to England by the way of Newfoundland and Ireland; another is to France by the way of Massachusetts and the island of St. Pierre, near Newfoundland.

Questions (I.)—1. Of what does the United States consist?—2. What was the population in 1870? How distributed?—3. How many belonged to the white race?—4. What is the leading industry? Where are its chief seats? Name the grains in the order of their latitude. Which is the most abundant? Which next? Name the other chief

products in the same order. Which is the most important?—5. What is said of grazing?—6. What of mining?—7. Where are the chief seats of manufacturing industry? Why? Name the principal manufactures. Where is fishing a leading interest?-8. How many kinds of commerce? What is domestic commerce?—9. What are its principal channels? Which is the first water route? The second? What is said of it? The third? What is said of it?—10. What is said of the railway routes?—11. What is foreign commerce? With what countries in Europe is the greater part of the foreign commerce? With what countries in America? In Asia?-12. Name the principal exports. What share is taken by England? By South America and the West Indies?—13. What are the chief imports? From what countries?

(II.)-3. From whom are the white inhabitants of the United States descended? How many negroes? From whom descended? How many Indians? Where are they? How many Chinese?-5. Where are the chief supplies of animal food and of wool obtained? Of butter and cheese?-6. Where are the principal coal and iron mines? Of gold and silver? Of lead? Of copper? What industries supply the raw materials for manufactures?—9. What is said of New York? Of the valleys of the Hudson and Mohawk? Of the Champlain and Hudson Canal? Of emigration? What is one of the results? From what part of the country do the great water routes radiate?—10. What is said of the railroads? Why is the railroad system important? What is said of the railroads to the Pacific? Of the coasting trade? How does it compare with the foreign commerce? What is said of light-houses? Of telegraphs and newspapers? What is said of domestic commerce? Upon what is it dependent? -13. Where does the greater part of the foreign commerce centre? Why? What part of the imports are received at New York? Of the exports? Name other leading ports. How is the foreign commerce chiefly carried on? How is it directed and controlled? Where are the ocean cables?





1. The General Government of the United States and the several state governments are all republican, or representative, in form.

The United States is the most extensive and powerful republic in the world.

- A republican government is one under which those who make the laws and those who execute them are elected for limited periods by the people.
- A state is a division of the United States, controlling its own internal affairs, but united with the other states under the Gen-
- A territory is a portion of the country not yet admitted as a state, because it has not sufficient population.
- 2. The General Government has three distinct departments—the legislative, the executive, and the judicial.
- 3. The legislative department, or Congress, consists of two distinct bodies—the Senate and the House of Representatives.

- A law is made by the consent of both Houses and the approval of the President of the United States. If the President returns a bill without his approval, he is said to veto it; it may, afterwards become a law if two thirds of each House again approve it.
- 4. The Senate consists of two members from each

The senators are chosen by the State Legislatures, and hold office for six years. Their present number is 76. The Vice-President of the United States is the presiding officer.

5. The House of Representatives consists of members chosen directly by the people of the several states.

They are the only officers of the General Government so chosen. They hold office for two years. There are at the present time 293 members, each state being entitled to one for every 135,000 of its inhabitants. The representatives elect one of their own number as presiding officer or Speaker. Each organized territory has a delegate in this House; he may take part in the discussion of all matters relating to his territory, but has no vote.

6. The President of the United States is the chief executive officer.

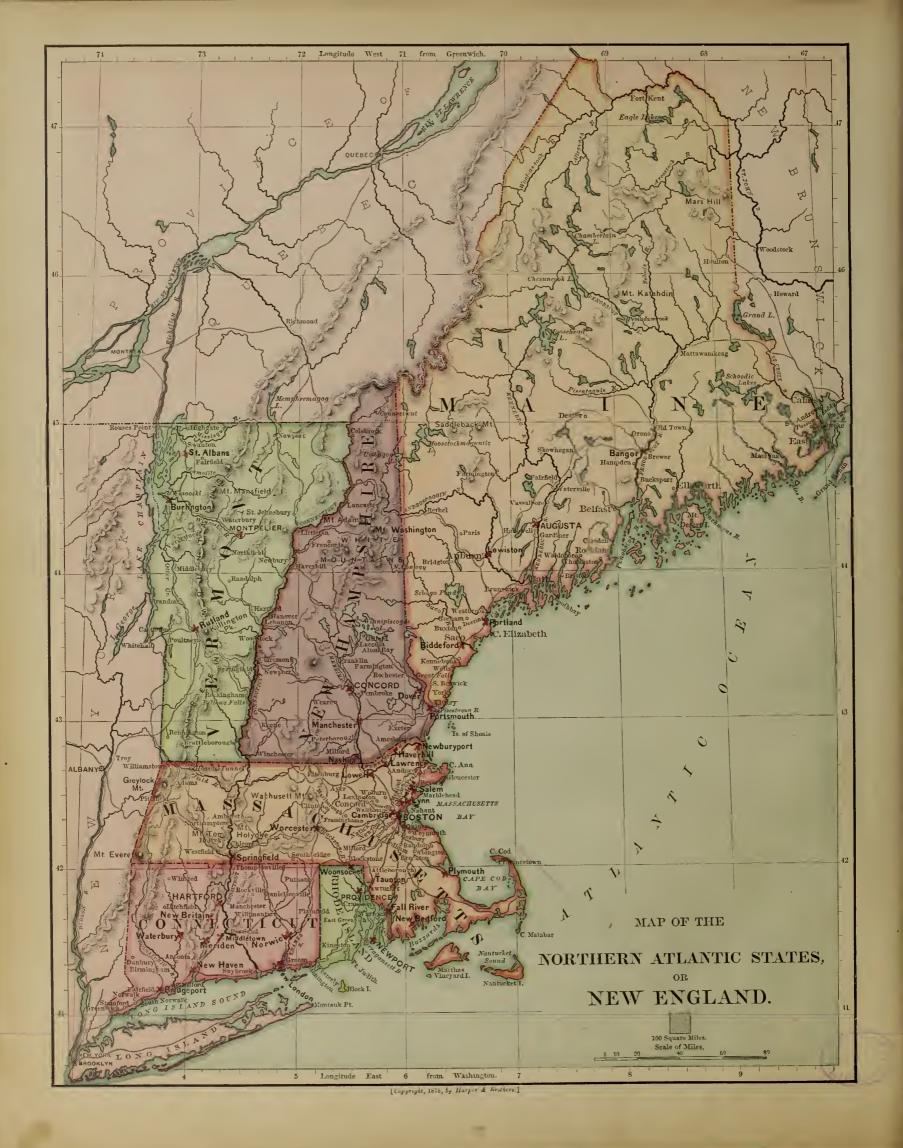
The President and the Vice-President are chosen by electors. The people of each state choose as many of these electors as there are members of Congress from that state. The President and the Vice-President hold office for four years. The President is commander-in-chief of the Army and the Navy. By and with the advice and consent of the Senate he appoints the judges of the Supreme Court and certain other civil and military officers, concludes peace, and makes treaties with other nations.

- 7. The Supreme Court, or judicial department, consists of a Chief-Justice and eight Associate Judges.
- 8. The complete statement of this plan or arrangement of the government is called the Constitution.
- 9. Each state has a complete political organization or constitution, similar in most respects to that of the United States. It has a Governor elected directly by the people, a Legislature in two departments, and a Supreme Court.

Neither the General Government nor any state government can make a law which is contrary to the Constitution of the United States. An organized territory has a government similar to that of a state, except that the governor and the judges are appointed by the President of the United States.

Questions (I.)—1. What is the form of the government of the United States? Of the several state governments? How does the United States compare with other republics?-2. How many and what departments has it?-3. Of what does the legislative department consist? What are they called?—4. Of what does the Senate consist? -5. How are the members of the House of Representatives chosen?-6. Who is the chief executive officer?-7. Of what does the Supreme Court consist?-8. What is the Constitution of the United States?-9. What is said of the state governments?

(II.)-1. What is a republican government? What is a state? What is a territory?-3. How are laws made? When is a bill said to be vetoed? How may it afterwards become a law?-4. How are the senators chosen? For how long a time? What is their present number? Who is President of the Senate?-5. In what particular is the election of members of the House peculiar? How long do they hold office? How many members are there at the present time? What is the basis of representation? Who is the Speaker? What is said of territorial delegates?-6. By whom are the President and Vice-President of the United States chosen? By whom are the electors chosen? How many are there? How long do the President and Vice-President hold office? Who is the head of the Army and Navy? What other powers and duties has he?-9. What laws can not be made? What can you say of territorial governments?



### XLI.

### QUESTIONS ON THE MAP.

General.—Name the North Atlantic States. Which is the largest? Which is the smallest? Which has no sea-coast? Which has the most broken coast? What mountain system covers a large part of New England? Which state has no mountains? In what general direction do the rivers flow? Which is the largest river? What states does it separate? What states does it cross? Which state has the greatest number of lakes?

Maine.—What river forms part of the northern boundary of Maine? Of the eastern? Of what lakes is it the outlet? Name three other principal rivers. From what lake does the Kennebec flow? What bays on the southern coast? What cape? What island? What city on Casco Bay? On the Saco River? On the Androscoggin? On the Kennebec? On the Penobscot? Which is the capital?

New Hampshire.—What mountains in the northern part of New Hampshire? What celebrated peak? What lake near the centre of the state? Which is the principal river in the state? In what state is the mouth of the Merrimac? What three cities in New Hampshire are on the Merrimac? Which is the capital? What sea-port in the southeast? At the mouth of what river? What city near the Piscataqua?

Vermont.—What parallel forms the northern boundary of Vermont? What lakes does it cross? Which of these forms part of the western boundary? In what direction do its waters flow? Through what branch of the St. Lawrence? What mountains in this state? Into what other states do they extend? Name the two highest peaks in Vermont. What town is the capital? What city on Lake Champlain? What town north of Burlington? What town southwest of Montpelier?

Massachusetts.—What two islands southeast of Massachusetts? What bay east? What two bays southeast? What three capes on the coast? What peak in the southwest? In the northwest? What two near Connecticut River? What river enters the state from New Hampshire? What cities on the Merrimac? Which of these is a sea-port? What city is the capital? What city northwest of Boston? What two cities northeast? What town on Cape Cod Bay? What city on Buzzards Bay? What city northwest of New Bedford? What city on the Connecticut? Midway between Springfield and Boston?

**Rhode Island.**—Name the two capitals of Rhode Island. On what island is Newport? (*Rhode.*) On what bay? At the head of what bay is Providence? What cape on the coast?

Connecticut.—What water south of Connecticut? What three rivers enter it from this state? What city is the capital? What two cities

on the Thames? What two on or near Long Island Sound? What city northwest of New Haven? What three cities near the centre of the state?

Voyages and Travels.—What cities, capes, rivers, and islands would you pass in a coasting voyage from Bridgeport to Providence? From Providence to Boston? Boston to the St. Croix River? Through what cities by railroad from Bridgeport to Boston by way of Springfield? By way of Providence? Boston to Bangor? Boston to St. Albans by way of Nashua?

### XLII.

### REVIEW EXERCISES.

States.—How bounded? What is the capital? The largest city?

States.	Area in Sq. Miles.	Population in 1870.	States.	Area in Sq. Miles.	Population in 1870,
Maine	32,000	627,000	Massachusetts	7,800	1,457,000
New Hampshire	9,300	318,000	Rhode Island	1,300	217,000
Vermont	10,200	331,000	Connecticut	4,700	537,000

Cities and Towns.—In what part of the state? How situated? Augusta? Portland? Bangor? Lewiston? Biddeford?

CONCORD? Manchester? Nashua? Dover? Portsmouth?

MONTPELIER? Burlington? Rutland? St. Albans?
Boston? Worcester? Lowell? Lynn? Cambridge? Lawrence?
Fall River? Springfield? Salem? New Bedford? Plymouth?

PROVIDENCE? NEWPORT? Woonsocket?

HARTFORD? New Haven? Bridgeport? Norwich? Waterbury?

Islands.—Where situated?

Nantucket? Marthas Vineyard? Mount Desert?

Capes.—From what coast does it project?

Elizabeth? Ann? Cod? Malabar? Judith?

Mountains.— Where are they?

Green? White? Mount Washington? Mount Mansfield? Mount Everett? Mount Tom? Mount Holyoke?

Bays, etc.— Where is it?

Passamaquoddy? Massachusetts? Cape Cod? Buzzards? Narragansett? Long Island Sound? Penobscot? Casco?

Rivers.— Where does it rise? In what direction does it flow? Through what states? Into what body of water?

St. John? St. Croix? Penobscot? Kennebec? Androscoggin? Merrimac? Connecticut? Thames? Housatonic?

Lakes.—Where situated? What outlet?

Moosehead? Winnipiseogee? Champlain? Grand?

### NORTH ATLANTIC STATES.

### XLIII.

### NORTH ATLANTIC or NEW ENGLAND STATES: DESCRIPTION.

1. **Position and area.**—The New England States ortend from the Atlantic Ocean to Lake Champlain and the Hudson. Their area is about one third from the Clifornia.

early as large as the five other states taken together.

The surface is generally rough, being | numerous. Some of the lakes are celebrated for their

broken by the mountains and numerous hills of this part of the Eastern Highland.

There are two principal ridges forming the sides of the long valley of the Connecticut River. The Green Mountains, near the western border, are the only continuous range. The irregular eastern ridge contains the White Mountains, the highest in New England.

The Atlantic shores are low in the south, and bold and rugged in the east. They furnish many good harbors.

3. Lakes and rivers.—The lakes and rivers are very

beauty. The frequent rapids and falls render the rivers unnavigable beyond a short distance, but furnish the extensive water-power which has made New England one of the greatest manufacturing districts in the United States.

4. Climate and soil.—The winters are long and severe; the summers are short, but hot.

The soil is stony, and not very fertile, except in the valleys.

5. **Agriculture.**—The agricultural products are not sufficient to supply the wants of the population.

The greater part of the breadstuffs and provisions used by the people of this section is brought from the Great Central Plain.

Large quantities of live stock and wool are produced.

6. **Occupations.**— Manufactures and commerce are the leading pursuits.

The manufactures comprise fabrics of cotton, wool, leather, metal, and wood, together with machinery, tools, and other articles in great variety.

The fire-arms, cutlery, sewing machines, and boots and shoes of New England find a market in a large part of the civilized world. The forests of hemlock and pine, especially in the southeast of Maine, furnish valuable lumber.

7. **Commerce.**—The many excellent harbors, the comparative nearness to Europe, and the abundance of shiptimber have contributed to establish an extensive foreign commerce.

The domestic commerce consists in the exchange of lumber, marble, granite, ice, and manufactured articles for coal, breadstuffs, provisions, and cotton, iron, wool, and other raw materials. For this purpose Southern New England possesses more coasting vessels and more miles of railroad than any other equal area in the United States.

8. **People.**—The people of New England are chiefly of

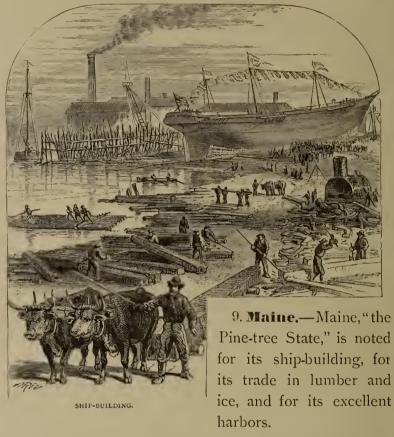


RAILROAD UP MOUNT WASHINGTON

English descent. They are distinguished for industry and intelligence, and for the general diffusion of education.

The numerous colleges, high-schools, normal and common schools are unsurpassed in excellence by any in the Union.

Massachusetts, Connecticut, and Rhode Island are the most densely peopled portion of the United States.



It has more good harbors than all the coast from the Chesapeake Bay to the Rio Grande.

Portland, the largest city, is at the termination of the Grand Trunk Railway of Canada, and is noted for its excellent harbor and its extensive commerce. It is the principal eastern gateway to the St. Lawrence Valley in the winter. Bangor is a great lumber depot. Augusta is the capital.

10. **New Hampshire.**—New Hampshire, "the Granite State," is remarkable for the beauty of its lakes and for the grand scenery of its mountains.

These mountains and lakes are much visited by tourists in summer. Mount Washington, the highest peak of the White Mountains, is 6288 feet high; the view from its summit is more extensive than any other east of the Mississippi. Of the lakes, Winnipiseogee, near the centre of the state, is the most beautiful.

Concord, the capital, is famous for its manufacture of coaches and wagons. Manchester, the largest city, and Nashua are noted for the manufacture of cotton and woollen goods.

The Merrimac River is said to be more extensively used for manufacturing purposes than any other river in the world.

11. **Vermont.**—Vermont, "the Green Mountain State," is chiefly a grazing country. It is also noted for its rich quarries of marble, soapstone, and slate.

Burlington, on Lake Champlain, is the chief city and a great lumber market. Montpelier is the capital.

12. **Massachusetts.**—Massachusetts, "the Bay State," is the third in the Union in the value of its manufactures; it is also noted for its extensive fisheries.

In 1870 it had nearly twice as many inhabitants as Texas, which is more than thirty times as large.

Boston, the capital, situated at the head of Massachusetts Bay, is the largest city in New England. In foreign commerce it ranks next after New York and New Orleans. It is the centre of a railway system which includes the Boston and Albany Railroad and many other important lines.

In the suburbs are many beautiful towns, large and small, connected with the city by railroads: such towns may be called *residential towns*, as they contain the homes of many thousands of the mercantile population of the city.

It has sometimes been called the "American Athens," on account of the excellence of its literary institutions.

Lowell, Lawrence, and Fall River, famous for cotton manufactures; Worcester, a great railroad and manufacturing centre; Cambridge, the seat of Harvard University, the oldest and richest in America; Lynn, famous for its manufacture of boots and shoes; New Bedford, the first sea-port in the world in the extent of its whale fisheries; and Springfield, containing the greatest arsenal in the United States, are among its chief cities.



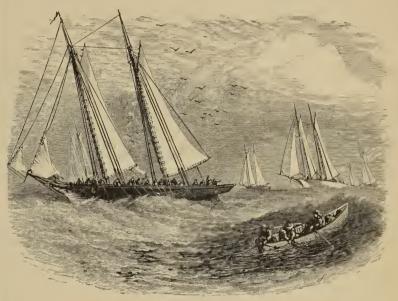
A MANUFACTURING TOWN.

Plymouth is celebrated as the landing-place of the Pilgrims, who formed a settlement there in 1620.

Lexington and Concord are famous for the opening engagements of the War of the Revolution. April 19, 1775.

13. **Rhode Island.**—Rhode Island, the smallest state in the Union, is extensively engaged in the manufacture of cotton, wool, iron, and jewelry.

This state contains a limited supply of anthracite coal.



FISHING-SMACKS.

Providence, the second city in New England, is one of the capitals. Newport, the other capital, is famous as a summer resort. Woonsocket is an important manufacturing town.

14. **Connecticut.**—Connecticut is noted for a greater variety of manufactures than any other state, and for its extensive coasting trade.

New Haven, the seat of Yale College, is the largest city. Hartford, at the head of navigation on the Connecticut, is the capital.

Questions (I.)—1. What is the position of the New England States? How do New England and California compare in size?—2. What is the character of the surface? Why?—3. What is said of the number of the lakes and rivers? For what are some of the lakes celebrated? What is the effect of the falls and rapids of the rivers? Why are they valuable?—4. What is the character of the climate? Of the soil?— 5. What is said of the amount of agricultural products?—6. What are the leading pursuits?-7. What is said of the foreign commerce? Of domestic commerce? Of the number of coasting vessels? Of railroads?—8. Of what descent are the people of New England? For what are they distinguished?—9. For what is Maine noted? Portland? Of what is it the principal gateway? For what is Bangor noted? What is the capital?-10. New Hampshire? Concord? Manchester and Nashua?-11. Vermont? Burlington? Montpelier?—12. Massachusetts? Which is the largest city in New England? What is its rank in foreign commerce? Of what is it the centre? Name one of the most important lines of railroad. Name some of the other chief cities. For what is Lowell noted? Lawrence? Fall River? Worcester? Cambridge? Lynn? New Bedford? Springfield?—13. Rhode Island? Providence? Newport? Woonsocket?-14. Connecticut? New Haven? Hartford?

(II.)—1. What is the relative size of Maine?—2. What form the sides of the Connecticut Valley? Which is the only continuous range? What is said of the eastern ridge? What is the character of the surface near the Atlantic?—5. Where are the breadstuffs and provisions obtained? Name the chief grazing products.—6. Name some of the principal manufactures of New England. The forest product.—8. What is said of the colleges and schools? What is said of the population of the three smaller states?—9. What is said of the harbors of Maine?—10. What is said of the mountains and lakes? Of Mount Washington? Of Lake Winnipiseogee? Of the Merrimac River?—12. How does it compare with Texas in area and population? What is said of the suburbs of Boston? What may these be called? What is Boston sometimes called? For what is Plymouth noted? Lexington and Concord?—13. What mineral in Rhode Island?



### XLIV.

### QUESTIONS ON THE MAP.

General.—Name the states of this group. Which two are the largest? Which is the smallest? What mountain system covers a large part of the group? Which state has the most mountains? Which has none? Which state has many lakes?

New York.—What two islands in the southeast part of the state? What strait between them? What mountains in the north? In the southeast? In the east? What river flows into New York Bay? Which is its most important branch? What two rivers partly separate New York from Canada? What two lakes? Which way does the water flow in the Niagara River? What falls in that river? What river drains a large number of small lakes? What river west of the Oswego? What river flows from this state into Delaware Bay? Into Chesapeake Bay? Into the Ohio River? What lake forms a part of the northeastern boundary? What lake south of Lake Champlain? What city at the mouth of the Hudson? On Long Island? Name the chief cities on the Hudson? Which is the capital? What city at the mouth of the Oswego? Of the Mohawk? On the Genesee? On Lake Erie? Near the Pennsylvania line? What two cities between Elmira and Oswego? What city east of Syracuse? What canal extends from Albany to Buffalo?

New Jersey.—What cape at the southern point of New Jersey? At the northeast point? What mountains in the northwest? What city is the capital? On what river? What city on the Delaware opposite Philadelphia? What six cities in the northeast?

Pennsylvania.—What parallel on the north of Pennsylvania? What river forms the eastern boundary? Name its principal branches. Name the chief mountain ranges of the state. What river crosses the state? Name its two chief branches. What river in the western part? What two rivers form the Ohio? What large city on the Delaware? On the Schuylkill? On the Lehigh? What two on the Susquehanna? Which is the capital? What city near Wilkesbarre? On the west branch? Between Harrisburg and Philadelphia? What two cities at the head of the Ohio? What one on Lake Erie?

**Delaware.**—What river flows into Delaware Bay? What cape opposite Cape May? What city in the northern part of the state? What city is the capital?

Maryland.—What river separates Maryland from Virginia? What federal district on that river? What mountains in the state? In what part? What great bay divides the state into two parts? What two cities on or near the bay? Which is the capital? What city west of Baltimore? Near the western border?

District of Columbia.—What large city in the District of Columbia? What is Washington? What suburb has it?

Voyages and Travels.—In sailing from Troy to Brooklyn, what towns would you pass? What cities, capes, bays, etc., from Jersey City to Philadelphia? Philadelphia to Baltimore? What by railroad from New York to Washington by way of Trenton? Philadelphia to Erie? Philadelphia to Pittsburgh? Pittsburgh to Annapolis?

### XLV.

### REVIEW EXERCISES.

States.—How bounded? What is the capital? The largest city?

States.	Area in Sq. Miles.	Population in 1870.	States.	Area in Sq. Miles.	Population in 1870.
New York	8,300	4,383,000 906,000 3,522,000	Delaware Maryland Dist. of Columbia.	11,000	125,000 781,000 132,000

Cities and Towns.—In what part of the state? How situated?
ALBANY? New York? Brooklyn? Buffalo? Rochester? Troy?
Syracuse? Utica? Cohoes? West Point?

TRENTON? Newark? Jersey City? Paterson? Elizabeth? Hoboken? Camden?

HARRISBURG? Philadelphia? Pittsburgh? Allegheny? Scranton? Reading? Lancaster? Erie?

DOVER? Wilmington?

Annapolis? Baltimore? Frederick? Cumberland?

Washington? Georgetown?

Islands.— Where situated?

Long? Staten?

Capes.—From what coast does it project?

Sandy Hook? May? Henlopen?

Mountains. — Where are they?

Adirondack? Catskill? Highlands? Blue? Alleghany? Laurel Mountain? Chestnut? South?

Bays.— Where is it?

New York? Delaware? Chesapeake? Long Island Sound?

Rivers.—Where does it rise? In what direction does it flow? Through what states? Into what body of water?

Hudson? Mohawk? Delaware? Schuylkill? Susquehanna? Alleghany? Potomac? Genesee? Monongahela? Oswego?

Lakes.— Where situated? What outlet?

George? Oneida? Cayuga? Seneca? Chautauqua?

### MIDDLE ATLANTIC STATES.

### XLVI.

### MIDDLE ATLANTIC STATES: DESCRIPTION.

- 1. Area.—The area of the Middle Atlantic States is about twice that of New England, or half that of Texas.
- 2. **Surface.**—The greater part of this group, being situated within the mountain region of the Eastern Highland, has a rough surface. The principal mountain ranges are the Adirondack and Catskill in New York, and the Blue and Alleghany in Pennsylvania.
- The mountains lie in the great forest belt; they are covered with pine, spruce, hemlock, and other evergreens in the north, and with deciduous trees in the south. The only lowlands are a narrow belt on the Great Lakes, and another on the Atlantic, connected by the valleys of the Hudson and the Mohawk.
- 3. **Climate.**—The winters are long and severe in the Adirondack region, but milder in the south; the summers are hot.
- 4. **Agriculture.**—Potatoes and all the grains except rice are produced in large quantities, but the population is so large, and so many are engaged in mining, manu-

facturing, and commerce, that all of these states except Maryland buy a large part of their breadstuffs.

- 5. Minerals.—Iron is abundant in all the states of this group except Delaware, coal in Pennsylvania and Maryland, zinc in New Jersey, salt in New York, and petroleum in Pennsylvania.
- 6. Manufactures.—In the value of its manufactured articles this group of states ranks first in the Union. The falls of the numerous rivers which drain the highland, and the abundant coal, give unusual advantages to this form of industry.

sippi, excluding Missouri and Iowa. The common-school system is one of the best in the United States.

The cataract of Niagara, in the Niagara River, is the grandest waterfall in the world. The water from the broad basin of four of the Great Lakes here falls over a precipice 164 feet high, producing a scene of wonderful sublimity.

The City of New York, sometimes called the Metropolitan City, is the richest and most populous city in America.

It is noted for its extensive commerce, the number of its magnificent hotels, banks, churches, and private dwellings, and for its Central Park. In 1870 only two cities of Europe-London and Paris—exceeded it in population.



7. **Commerce.**—The Middle Atlantic States are the principal commercial section of the Union.

The chief routes of the vast domestic commerce of this group of states are Hudson River, the Erie Canal, the New York, Lake Erie, and Western, and the New York Central and Hudson River Railroads, in New York; Chesapeake and Delaware Bays, and the Pennsylvania Railroad in Pennsylvania; the Baltimore and Ohio Railroad in Maryland; and the New Jersey Central Railroad in New Jersey.

Into these few channels are gathered the extensive coasting trade and the immense system of railway and river lines of the West and South.

The three great bays and the excellent harbors of the Atlantic coast, the navigable rivers, and the easy access to Europe and to the rich Valley of the Mississippi and the Great Lakes, give remarkable advantages both for foreign and domestic commerce. The Hudson is navigable to Troy, the Delaware to Trenton, and the Potomac to Georgetown.

8. New York.—New York, "the Empire State," is the first in the Union in population, wealth, and commerce.

Its population in 1870 was nearly a million more than that of New England, and equal to that of all the states west of the Missis-

Brooklyn, the third city of the United States, and Jersey City, in New Jersey, are connected with New York by many short ferries, and really constitute with it one great city.

Besides these, there are many residential towns connected with New York by rivers and railroads. So numerous are these towns that the total number of inhabitants within a circle of thirty miles' radius around New York is not less than 2,000,000; the population of the city itself by day is at least 1,250,000.

Among other important places are Buffalo, on Lake Erie, the third city of the state, and Albany, the capital and fourth city; these are important depots of grains and other produce; Buffalo also supplies large quantities of the anthracite coal of Pennsylvania to the Lake States and Canada. Syracuse is noted for its salt-works; Rochester, Oswego, Troy, Utica, and Cohoes for waterpower and manufactures. The village of West Point, beautifully situated on the Hudson, is the seat of the United States Military Academy.

9. New Jersey.—New Jersey, lying between the great cities of New York and Philadelphia, is largely engaged in market-gardening and fruit-raising.

Newark, the largest city; Jersey City, a suburb of New

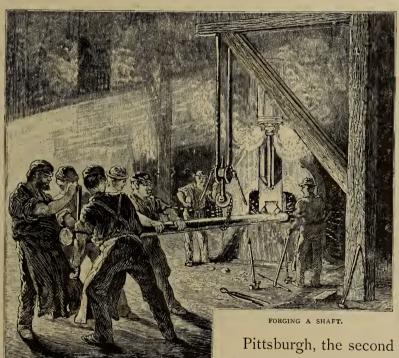
York; Paterson, at the Passaic Falls; and Trenton, the capital, are extensively engaged in manufacturing.

10. **Pennsylvania.**—Pennsylvania, "the Keystone State," is remarkable as the chief mining state in the Union. It produces one half of the iron, nearly all of the petroleum, and three fourths of the coal mined in the United States.

The coal of this state, with that of Maryland, supplies domestic fuel and the steam-power of vessels, locomotives, and factories for a large part of the United States. The abundance of fuel and iron shapes the industries of its leading cities.

Philadelphia is the first city of the United States in manufactures, the second in population, and the fifth in foreign commerce.

It also has an extensive domestic commerce, and is the greatest coal depot in America. It is noted for its Fairmount Park, its well-supplied markets, and its abundance of cheap and comfortable dwellings: it is sometimes called the "City of Homes." Its most famous public building is the State House, where the Declaration of Independence was adopted, July 4, 1776.



city of the state, is the chief centre of the iron terest, and is one of the greatest netroleum markets in

interest, and is one of the greatest petroleum markets in the world. It has a large trade with the Mississippi Valley in bituminous coal, glass, iron, and machinery. Allegheny is the third city in the state.

Scranton, Pottsville, and Wilkesbarre are large "coal" towns in the anthracite region, which has numerous railways and canals for the transportation of this product. Harrisburg is the capital.

11. **Delaware.**—Delaware is the smallest state in the Union except Rhode Island, and is noted for its fruit trade. Wilmington, the chief city, is noted for its manufacture



COAL - MINE

of gunpowder and a great variety of other articles. Dover is the capital.

12. **Maryland.**—Maryland is noted for its mild climate, and for its production of tobacco, coal, and iron.

The peninsula between the Chesapeake Bay and the Atlantic is the great peach-growing district of the United States.

Baltimore is the sixth city in the United States in foreign commerce and in population.

It has an extensive trade in tobacco, canned fruit, and oysters.

It is the terminus of a trunk railway, the Baltimore and Ohio, which connects it with St. Louis, and with Chicago and other lake-ports.

Annapolis, the capital, is the seat of the Naval School of the United States.

13. **District of Columbia.**—The District of Columbia, situated on the Potomac, has an area of sixty square miles. It contains Washington, the capital of the United States.

Questions (I.)—1. What is the area of this group?—2. What is the character of its surface? Why? Name the principal mountain ranges.—3. What is the character of its climate?-4. What are the agricultural products? What is said of the breadstuffs?-5. What and where are the chief minerals?-6. What is said of the manufactures? Of the natural advantages for manufacturing?-7. What is said of the commerce? Name the principal routes. What is said of them?-8. For what is the State of New York remarkable? The City of New York? What is said of Brooklyn and Jersey City? For what is Buffalo noted? Albany? Syracuse? West Point? What cities are noted for water-power and manufactures?-9. What are the chief occupations in New Jersey? What cities are engaged in manufacturing? Which is the largest city? The capital?—10. For what is Pennsylvania noted? What is said of its mineral products? For what is Philadelphia noted? For what is Pittsburgh noted? Which is the third city in the state? Which are the coal towns? What city is the capital?—11. What is the comparative size of Delaware? For what is it noted? Wilmington? What city is the capital?-12. For what is Maryland noted? What is said of the peninsula? Baltimore? Annapolis?-13. What is the area of the District of Columbia? What city does it contain?

(II.)—2. In what belt do the mountains lie? With what are they covered? Where are the lowlands?—7. What are the commercial advantages of this section? How far is the Hudson navigable? The Delaware? The Potomac?—8. What is said of the population? Of the common-school system? Of the Falls of Niagara? For what is New York City noted? What is said of its population? Of the residential towns?—10. What is said of the coal of Pennsylvania? What determines the industries of the leading cities? What is said of Philadelphia? For what is it noted? What is it sometimes called? What is its most famous public building?—11. What is said of the trade of Baltimore? Of what great railway is it the terminus?

### XLVII.

# OUESTIONS ON THE MAP.

General.—How many states are represented upon this map? Into what two groups may they be divided? (See page 29.) Into what do the rivers of the South Atlantic States flow? What is their general direction? Into what do the rivers of the South Central States flow? What is their general direction in the north? In the west? In the south? In what part of the South Atlantic States are the mountains? Of the South Central States? What states are partly separated by the Alleghany range? By the Cumberland range? By the Iron or Smoky Mountains? Through what states does the Blue Ridge extend? Which of these states have no mountains? What states are bounded by the Ohio River? The Mississippi? The Gulf of Mexico?

Virginia.—What great bay partly within the State of Virginia? What two capes at its mouth? What four rivers flow into that bay? What branch has the James? What boundary river on the north? What city on the Potomac? What two cities on the James? Which is the capital? What city on the Appomattox? What two cities near the mouth of the James? What peaks in the Blue Ridge? What river between the Blue Ridge and the Alleghany Mountains? In what direction does it flow? Of what river is it a branch? What swamp in the southeastern part of the state?

North Carolina,—What cross-range connects the Iron Mountains with the Blue Ridge? What peak in the Black Mountains? For what is it remarkable? (It is the Righest point in the United States east of the Rocky Mountains.) What two sounds on the coast of North Carolina? How are they separated from the ocean? (By narrow sand-bars and islands.) What capes on these islands? Near what city in North Carolina do they end? Of what use are these sand-bars and islands? (They protect the navigation of the entire east of North Carolina.) What rivers flow into these sounds? What river enters the ocean at Cape Fear? What two cities on the Neuse River? What two cities on the Capital?

South Carolina,—Which is the principal river of South Carolina? What two branches form it? On which of these is the capital? What two rivers form the Congaree? What river north of the Santee? What river south of the Santee? What large city on the coast?

Georgia.—What river forms the eastern boundary of Georgia? What two cities on the Savannah? What large river south of the Savannah? What rivers form the Altamaha? What city on each? What river forms a part of the western boundary? What river east of the Chattahoo-

chee? What city on the Chattahoochee? What is the capital? What city east of Atlanta?

Florida.—What small islands south of Florida? What town on one of them? What capes on the coast of Florida? What bays? What great swamp in the southern part of the state? What lake north of it? What broad river in the east? In what direction does it flow? What town near its mouth? What town northeast of Jacksonville? Southeast? What river in the northwest? What banches form it? What is the capital? What town in the northwest? On what bay?

West Virginia.—Which is the principal river of West Virginia? What river forms a part of the western boundary of this state? What city in the narrow northern part of the state? On what river? What is this narrow district sometimes called? (The Pan-han.lle.) What other town on the Ohio? What city is the capital?

Kentucky.—Name the five chief branches of the Ohio River in Kentucky. Which has its mouth opposite Cincinnati? What two towns at the mouth of the Licking? What city is the capital? What city southeast of it? What large city on the Ohio?

Tennessee.—Which are the two chief rivers in Tennessee? Through what states does the Tennessee flow? Through what states does the Cumberland flow? What city is the capital? What two cities in East Tennessee? On what rivers? What large city on the Mississippi? What city northeast of Memphis? What city southwest of Nashville?

Alabama.—Name the two chief rivers of Alabama. What town north of the Tennessee? Into what does the Mobile flow? What two branches has the Mobile? What city on Mobile Bay? What two towns on the Alabama? What branch has the Tombigbee? What city on the Black Warrior? What city is the capital?

Mississippi.—Name the three chief rivers of Mississippi. Of what river is the Yazoo a branch? The Tombigbee? What other branch of the Mississippi in this state? Into what does the Pearl River flow? What city on the Pearl? On the Tombigbee? What two on the Mississippi?

Woyages and Travels.—What rivers, capes, and sea-ports would you pass near in a voyage from Washington to Fernandina? From Fernandina to Mobile? From Mobile by steamer to Memphis? From Memphis to Wheeling? What cities would you pass through in a journey by rail from Washington to Atlanta by way of Wilmington? From Atlanta to Vicksburg? From Vicksburg to Lynchburg by way of Chattanooga? From Cincinnati to Huntsville? From Savannah to Knoxville by way of Chatlanooga? From Washington to Pensacola by way of Chattanooga? From Savannah to Chattanooga? From Savannah to Chattanooga? From Petersburg to Nashville?

### XLVIII.

# REVIEW EXERCISES.

States.—How bounded? What is the capital? The largest city?

ATLAN' SOUTH	JANTIC STAT	FATES: S10N.	ATLANTIC STATES: CENTRAL STATES: SOUTHERN DIVISION.	NTRAL STATI SOUTHERN DIVISION.	'ATES:
States.	Area in Sq. Miles.	Area in Population in 1870,	States.	Area in Sq. Miles.	Population in 1870.
Virginia	38,300	1,225,000	1,225,000 W.Virginia. 23,000	23,000	445,000
N.Carolina. 50,700	50,700	1,071,000	1,071,000 Kentucky	37,700	1,321,000
S.Carolina.	31,000	706,000	Tennessee	45,600	1,259,000
Georgia	58,000	1,184,000	1,184,000 Alabama	50,700	997,000
Florida	59,300	188,000	188,000 Mississippi.	47,200	828,000

Cities and Towns,—In what part of the state? How situated?

RICHMOND? Norfolk? Petersburg? Alexandria? Portsmouth? Lynchburg?

RALEIGH? Wilmington? New Berne? Fayetteville? COLUMBIA? Charleston?

ATLANTA? Savannah? Augusta? Macon? Columbus? Athens?

TALLAHASSEE? Jacksonville? Key West? Pensacola? St. Augustine? Fernandina?

WHEELING? Parkersburg?

WHEELING: Lancisburg:
Frankfort? Louisville? Covington? Newport? Lexington?

NASHVILLE? Memphis? Knoxville? Chattanooga? Columbia? Jackson?

MONTGOMERY? Mobile? Selma? Huntsville? Tuscaloosa?

JACKSON? Vicksburg? Natchez? Columbus?

Capes.—From what coast does it project?

Charles? Henry? Hatteras? Lookout? Fear?

Canaveral? Sable?

Mountains,—Where are they?

Blue Ridge? Alleghany? Cumberland? Iron? Black?

Mount Mitchell? Peaks of Otter?

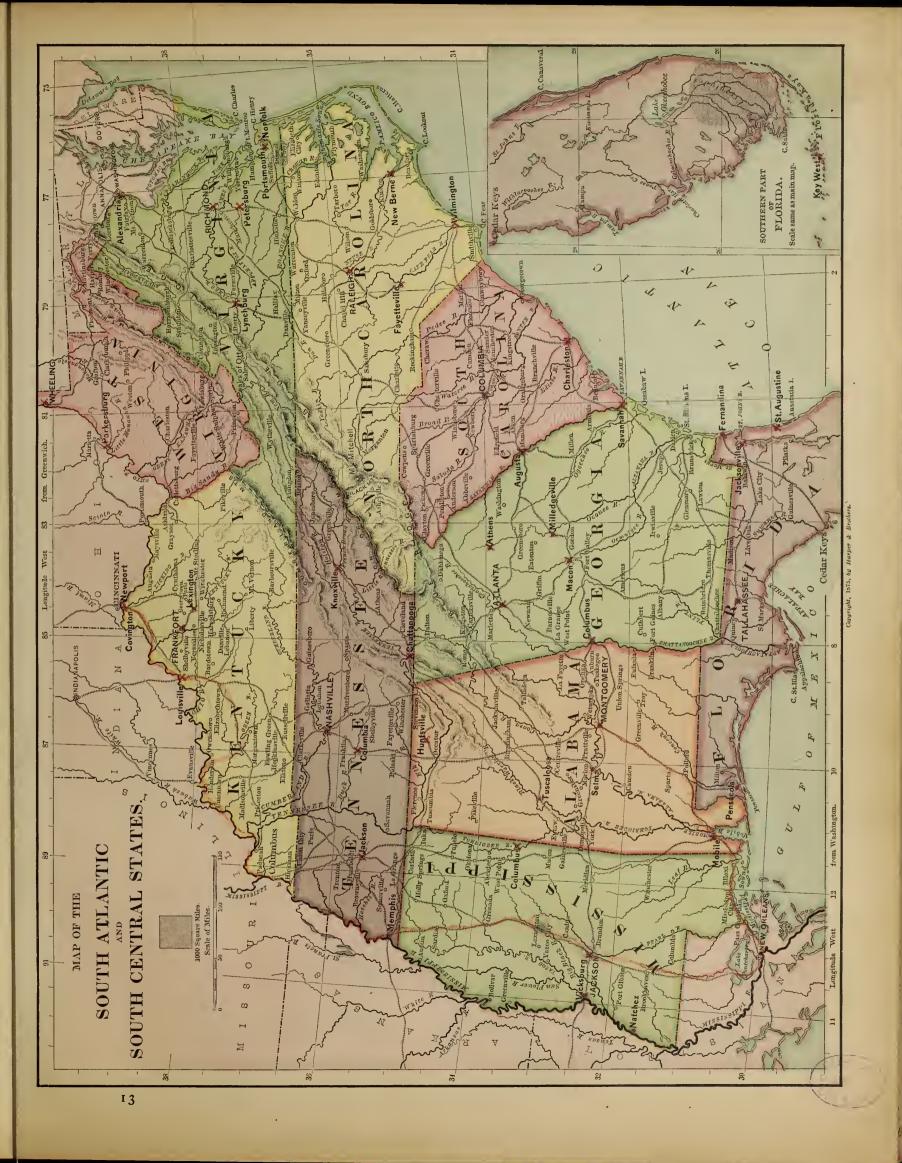
Bays, etc. — Where is it?

Chesapeake? Albemarle Sound? Pamlico Sound?

Tampa? Appalachee? Mobile? Mississippi Sound?

Rivers.— Where does it rise? In what direction does it flow? Through what states? Into what body of water?

Potomac? Rappahannock? York? James? Appomattox? Roanoke? Neuse? Cape Fear? Santec? Savannah? Altamaha? St. Johns? Appalachicola? Flint? Chattahoochee? Great Kanawha? Licking? Kentucky? Cumberland? Tennessee? Yazoo? Pearl? Mobile? Tombigbee? Alabama? Shenandoah?



### ATLANTIC AND CENTRAL STATES:

### SOUTHERN DIVISIONS.

### XLIX.

### ATLANTIC STATES: SOUTHERN DIVISION.

- 1. Area.—The area of the four northern states of this group is about equal to that of the eleven Atlantic States north of the Potomac. Florida is the largest state east of the Mississippi.
- 2. Surface.—The surface consists of several belts of country parallel to the coast:

First. The most western belt contains the Blue Ridge and the Iron or Smoky Mountains, with the high valleys between.

This elevated district is mostly covered with forests of deciduous trees-oak, hickory, chestnut, maple, etc. It has an abundance of water-power, coal, and iron, but is yet undeveloped.

Second. East of the mountain belt lies a broad strip of fertile country. It produces tobacco in the north and cotton in the south.

Third. Farther to the east is a low sandy belt, called the "Pine Barrens," covered with forests. It supplies lumber, tar, pitch, and turpentine.

It extends nearly to the Mississippi on the west, and may be traced towards the north through New Jersey and Long Island.

Fourth. The low, unhealthy coast region contains a chain of great swamps, extending from the Dismal Swamp of Virginia to the Everglades of Florida, and along the shores of the Gulf of Mexico to Texas. In some parts

RICE - FIELDS

of this belt rice is extensively cultivated. It also contains forests of live-oak, which is valuable for ship-building.

3. Climate.—The summers are long and hot. The winters are mild in the mountains and in the north; in the southern part there can hardly be said to be any winter.

The moist winds of the Atlantic and of the Gulf of Mexico give to Georgia and the Gulf States the largest rain-fall known in any part of the United States excepting Puget Sound and Alaska.

The production of cotton, the great staple of the South, and one of the chief exports of the United States, is dependent upon the frequent summer showers.

- 4. Occupation and productions. Agriculture is the leading occupation. The principal products are wheat, corn, sweet potatoes, and tobacco in the north; rice and cotton in the south.
- 5. Virginia.—Virginia, "the Old Dominion," is the second state in the production of tobacco, and has a large trade in garden vegetables, Southern agricultural staples, and in oysters from the Chesapeake Bay.

The country between the Blue Ridge and the Alleghany Mountains is called the Great Valley of Virginia, and is one of the most fertile districts in the United States.

Richmond, at the falls of the James, is the capital and chief manufacturing and railroad centre. It is the largest city in this group of states, and has an extensive trade in iron manufactures and tobacco.

> Norfolk, the second city, and a leading cotton port, has the best harbor in the United States south of the Potomac.

6. North Carolina. North Carolina, "the Old North State," is noted for its extensive pine forests.

Wilmington, the largest city, exports turpentine, tar, pitch, rosin, lumber, rice, and cotton. Raleigh is the capital.

7. South Carolina.—South Carolina, "the Palmetto State," produces more rice than any other state.

Charleston, the largest city, is an important cotton port. Columbia is the capital.



8. **Georgia.**—Georgia has a larger population and more extensive manufactures than any other sea-board state south of Virginia. The manufactures are chiefly of iron and cotton, and are rapidly increasing.

Savannah is the chief port and largest city. Atlanta, the capital, is a thriving city and an important railroad centre. Columbus, on the Chattahoochee, has abundant water-power, and manufactures a large amount of cotton goods.

9. **Florida.**—Florida is noted for its mild climate and its orange-groves and other tropical vegetation.

The population is nearly all in the northeast, and within 100 miles of the northern boundary. The southern half of the state is a low morass.

Jacksonville is the largest city. St. Augustine is the oldest town in the United States. Pensacola has the best harbor on the Gulf. Key West is a wrecking station, and is largely engaged in sponge-fishing and in the manufacture of cigars. Tallahassee is the capital.

Questions (I.)—1. What is the area of the four northern states of the South Atlantic group? Of Florida?—2. Of what divisions does the surface consist? What constitutes the western belt? The second belt? What does it produce? What is the third belt? What does it supply? What is the fourth belt? What are the productions of this belt?—3. What is the character of the climate? What is said of the rainfall? Of the production of cotton?—4. What is the leading occupation? Name the chief productions.—5. For what is Virginia noted? Richmond? Norfolk?—6. North Carolina? Wilmington? Raleigh?—7. South Carolina? Charleston? Columbia?—8. Georgia? Savannah? Atlanta? Columbus?—9. Florida? What is said of Jacksonville? St. Augustine? Pensacola? Key West? Tallahassee?

(II.)—2. What is said of the forests of the mountain belt? Of its water-power and minerals? What is the extent of the third belt?—5. Where and what is the Great Valley?—9. Where is most of the population of Florida? What is the character of the southern half of the state?

### L.

### THE CENTRAL STATES: SOUTHERN DIVISION.

1. **Surface.**—This group of states has a diversified surface, but the greater part is in the low Central Plain.

West Virginia lies in the Eastern Highland, and Mississippi in the Great Plain. Kentucky, Tennessee, and Alabama have large highland districts.

- 2. **Climate.**—The climate of the highlands is mild and delightful; the lowlands have long and hot summers.
  - 3. Soil.—The greater part of the plain is very fertile.
- 4. **Occupations.**—Agriculture is the chief occupation. The leading staples are cotton, corn, tobacco, and hemp.

All but West Virginia produce cotton. The mountains and numerous rivers of the Eastern Highland give West Virginia, Kentucky, and Tennessee unlimited water-power, coal, and iron: these are as yet but little used.

5. Commerce.—The Cumberland, Tennessee, Alabama,

and other large navigable rivers radiate from the highland and fall into the Ohio, the Mississippi, and the Gulf. These rivers and the numerous railways furnish excellent commercial facilities.

Louisville, Knoxville, Chattanooga, Nashville, Memphis, and Mobile are the leading railroad centres.

6. **West Virginia.**—West Virginia has a mountainous surface. It is rich in bituminous coal, iron, salt, and petroleum.

Wheeling, on the Ohio River, is the capital and largest city. Parkersburg is an important town.

7. **Kentucky.**—Kentucky is the most populous state south of the line of the Ohio and Potomac rivers.

It surpasses every other state in the production of tobacco, and produces half of the hemp raised in the United States.



TOBACCO PLANTATION.

Louisville, on the Ohio, is, after New Orleans, the largest city south of the Ohio and the Potomac; it has a large trade in flour, pork, hemp, and tobacco. Covington and Newport are opposite Cincinnati. Frankfort is the capital.

8. **Tennessee.**—Tennessee has three physical divisions, known as East, Middle, and West Tennessee.

East Tennessee is a mountainous country, and is remarkably rich in coal, iron, timber, and water-power.

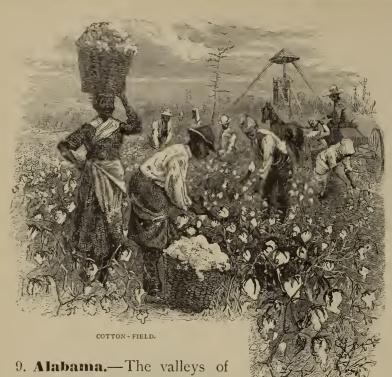
Knoxville, on the Holston, and Chattanooga, beautifully situated on the Tennessee, are the chief depots of this important region.

Middle Tennessee, the most populous division, is famous for its production of corn, tobacco, and live stock.

Nashville, the capital, is its depot.

West Tennessee is the lowest and warmest part of the state. Cotton is the chief staple.

Memphis, the chief city of the state, is the largest on the Mississippi River except New Orleans and St. Louis.



the Alabama, the Tombigbee, and the Tennessee include most of the state. Cotton is the chief product.

Selma, Tuscaloosa, and Montgomery, the capital, are important depots for cotton. Mobile, a cotton port, is the largest city.

10. Mississippi.—Mississippi is noted as the leading state in the production of cotton.

Vicksburg is the most important city. Jackson is the capital.

Although the richest in the most important export of the United States, this is the only Gulf State with no sea-port of its own. It has no large city.

Questions (I.)—1. What is the character of the surface of this division? Where does the greater part lie?-2. What is the character of the climate?-3. Of the soil?-4. What is the chief occupation? Name the leading staples.—5. What is said of the chief rivers of this group? What commercial facilities has this section? Name the leading railroad centres.-6. What kind of a surface has West Virginia? In what minerals is it rich? What is the capital and largest city? - 7. For what is Kentucky noted? Louisville? Covington? Frankfort?-8. How many physical divisions has Tennessee? Name them. For what is East Tennessee noted? Knoxville and Chattanooga? Middle Tennessee? Nashville? West Tennessee? What is the principal staple? For what is Memphis noted?—9. What river valleys include most of the State of Alabama? What is the chief product? Name the principal cotton depots. For what is Mobile noted?-10. For what is Mississippi, noted? Name the most important city. The capital.

(II.)-1. Which of these states has no lowland? Which no highland? Which have large highland districts?—4. Which of these states does not produce cotton? Which are rich in water-power, coal, and iron?—7. How does Kentucky rank in the production of tobacco? Of hemp?—10. Has Mississippi any sea-ports? Any large cities?

### LI. QUESTIONS ON THE MAP.

General.-Name the states of this group. Which border on the Ohio River? On the Mississippi? On Lake Superior? On Lake Michigan? On Lake Erie? What water connects Lake Superior with Lake Huron? Lake Huron with Lake Michigan? With Lake St. Clair? Lake St. Clair with Lake Erie? Which of these states has no river belonging to the Mississippi system?

Ohio.-Name the three chief branches of the Ohio River in this state. What river in the northwest? What city on the Maumee? What two cities on Lake Erie? What two cities on the Ohio? What city on the Muskingum? On the Scioto? What two cities on the Miami? What city west of Columbus? What city is the capital?

Indiana.—Which is the chief river of Indiana? What is the chief branch of the Wabash? What large city on the west fork of the White? What two cities on the Wabash? What three on the Ohio? What city on the Maumee? What city is the capital?

Illinois.—Name the three chief branches of the Mississippi in this state. What city is the capital? What city on Rock River? On the Mississippi? On Lake Michigan? West of Chicago? On the Illinois River? Northwest of Peoria? Southeast of Peoria?

Wisconsin.—Which is the chief branch of the Mississippi in this state? What lake in the eastern part? What river is its outlet? Into what bay does it flow? What two cities on Lake Winnebago? What two on Lake Michigan? What city is the capital?

Michigan.—Of what does Michigan chiefly consist? (Of two great peninsulas.) What large island in Lake Superior belongs to this state? Which is the chief river of South Michigan? What three cities on Grand River? Which of these is the capital? What city south of Grand Rapids? Southeast of Jackson? What bay on the eastern shore? What river flows into it? What city on Saginaw River? On Detroit River?

Voyages and Travels.—Through what waters would you pass, and

near what cities, in a coasting voyage from Chicago to the head of Lake Superior? Chicago to Cleveland? What cities would you pass between Cincinnati and the mouth of the Ohio? By rail from Chicago to Oshkosh? Chicago to St. Louis? Chicago to Evansville? Chicago to Louisville by way of Logansport? Chicago to Cleveland? Cleveland to Cincinnati? Cleveland to Grand Rapids by way of Detroit?

### LII. REVIEW EXERCISES.

States.—How bounded? What is the capital? The largest city?

States.	Area in Sq. Miles.	Population in 1870.	States.	Area in Sq. Miles.	Population in 1870.
Ohio Indiana	1	2,665,000 1,681,000	Wisconsin Michigan	_ ′	1,055,000 1,184,000
Illinois	55,400	2,540,000			

Cities and Towns.—In what part of the state? How situated? COLUMBUS? Cincinnati? Cleveland? Toledo? Dayton? Sandusky? Springfield? Hamilton? Portsmouth? Zanesville?

INDIANAPOLIS? Evansville? Fort Wayne? Terre Haute? New Albany? Lafayette? Madison?

Springfield? Chicago? Quincy? Peoria? Bloomington? Aurora?

Rockford? Galesburg?

MADISON? Milwaukee? Fond du Lac? Oshkosh? Racine? LANSING? Detroit? Grand Rapids? Jackson? East Saginaw? Kalamazoo? Adrian?

Bays.—Where is it? Green? Saginaw?

Rivers.—Where does it rise? In what direction does it flow? Through what states? Into what body of water?

Scioto? Wabash? White? Illinois? Wisconsin? St. Marys? Fox? Grand? St. Clair? Detroit? Maumee? Saginaw?

Lakes.— Where situated? What outlet? Winnebago? St. Clair?



### NORTHERN CENTRAL STATES.

### LIII.

### CENTRAL STATES: NORTHERN DIVISION.

- 1. This group lies wholly in the Great Central Plain.
- 2. Surface.—There are no mountains.

There is a hilly region in the southeast, towards the Ohio, and another and more rugged one towards Lake Superior.

The greater part of Illinois and the adjacent parts of Wisconsin and Indiana are level or rolling prairies. The rest of the vast plain, and the hilly regions, are covered with forests except where cleared for cultivation.

- 3. Climate.—The winters are severe, especially in the north; the summers are hot.
- 4. Minerals.—The hilly region near Lake Superior contains an abundance of iron-ore and the richest copper-



mines in the world; that near the Ohio is equally rich in iron, and contains very extensive deposits of coal. An important lead region covers the adjacent parts of Wisconsin and Illinois near the Mississippi. Michigan produces a large amount of salt.

5. **Occupations.**— Agriculture and grazing are the leading pursuits. Of wheat, corn, wool, and live stock the quantity produced is unsurpassed by that of any equal area on the globe. Manufacturing and mining are important, and are rapidly increasing in the coal and iron districts.

6. **Commerce.**—The commercial advantages of this group are remarkable. Three of the principal waterways of the continent—the Mississippi, the Ohio, and the Great Lakes—form an almost complete boundary.

On or near this margin lie all the largest cities in the United States west of Atlantic tide-water excepting San Francisco and New Orleans. Milwaukee, Chicago, Detroit, Toledo, Cleveland, and Cincinnati are on the inner margin of the district; and St. Paul, St. Louis, Louisville, Pittsburgh, and Buffalo are just outside of it.

The chief business of the large and important inland city Indianapolis, and of all these lake and river ports except Pittsburgh, and of the systems of railways of which they are the centres, is the collection and transportation of the agricultural and grazing products of this vast granary and those of the equally productive adjacent states west of the Mississippi River.

Canals connect the rivers flowing into the Great Lakes with navigable branches of the Mississippi and the Ohio, the Wisconsin with the Fox, the Illinois with the Chicago, and the Wabash with the Maumee. The falls in the St. Marys River, at the entrance of Lake Superior, are passed by a ship-canal in Michigan.

Most of the rivers of the Mississippi system have high banks called bluffs. The depth of water in these rivers varies greatly during the year, the Ohio sometimes having a "rise" of fifty feet.

7. **Inhabitants.**—The inhabitants are chiefly descendants of immigrants from the North Atlantic and Middle Atlantic States; most of the remainder are European immigrants.

No part of the world possesses a larger proportion of intelligent, industrious, self-reliant citizens; and no equal area surpasses this group of states in the excellence of the common schools and the general interest in public education.

The Germans constitute the greater part of the foreign-born population; the Irish are next in numerical importance; there are also many thousands of Swedes, Norwegians, and Danes.

8. **Ohio.**—Ohio is the first state in the Union in the production of wool, the second in that of coal, and is the third in population. In the amount and variety of its manufactures it exceeds every other state west of the Appalachian Mountains.

Cincinnati, the largest city, and the metropolis of the Ohio Valley, has an extensive trade in provisions and grain, and is one of the principal manufacturing cities in the United States.

Cleveland, the second city, is one of the five Great Lake ports. Toledo, also a lake-port, Dayton, and Columbus, the capital, are among the numerous large cities.

9. **Indiana.**—Indiana is the sixth state in population, and has a level surface, fertile soil, and valuable mines of block-coal. It produces a large amount of grain and live stock.

Indianapolis, the capital and largest city, is a great railroad centre, and one of the most important and rapidly growing cities of the Central States. Evansville and Fort Wayne are next in population.

10. **Illinois.**—Illinois is the first state in the Union in the production of corn and wheat, and the fourth in population. It possesses one of the most extensive coal-fields in the world.

This state is mostly prairie, with low hills on the Ohio and bluffs on the Mississippi.

Chicago, the largest city in the state, and the commercial metropolis of the St. Lawrence basin, is the chief lumber and pork market in America, and, next to London, the greatest grain market in the world.

A large number of railways radiate from it as a centre. The city is of recent and remarkably rapid growth, having more than tripled in population in the last ten years. Originally built on low ground, it has become, in its grading, drainage, and water-supply, a monument to the energy, sagacity, and public spirit of its citizens.

In October, 1871, a fire, one of the most destructive in modern times, swept away three and a quarter square miles of its most valuable storehouses and residences. The direct loss was estimated at nearly \$200,000,000, and the loss of business at \$90,000,000 more. Notwithstanding this sudden calamity, the most extensive and disastrous that ever befell an American community, the new Chicago that has already sprung from the ashes of the old is in every respect a grander city.

Among other important cities are Quincy and Peoria. Springfield is the capital.

11. **Wisconsin.**—Wisconsin resembles Illinois in the abundant production of wheat, and Michigan in that of lumber. This state has a large number of beautiful lakes; it also has an abundance of water-power, that of the Fox River, between Winnebago Lake and Green Bay, being among the most valuable in the United States.

The population is mostly in the south.

Milwaukee, the largest city, is one of the five Great Lake ports, and has a large commerce in breadstuffs, provisions, and lumber. Fond du Lac, Oshkosh, and Racine are important places. Madison is the capital.

12. **Michigan.**—Michigan consists of two peninsulas. It is bordered by four of the five Great Lakes, and has more coast than any other state excepting Florida.

The population is mostly in the south, which is fertile. The northern part of the southern peninsula is sandy, and covered with valuable forests of white pine. The North Central States furnish a ready market for the salt of Saginaw and for the lumber of Saginaw and of the eastern shore of Lake Michigan. Other



REAPING SCENE

important productions are white-fish from the Great Lakes and copper and iron from the shores of Lake Superior.

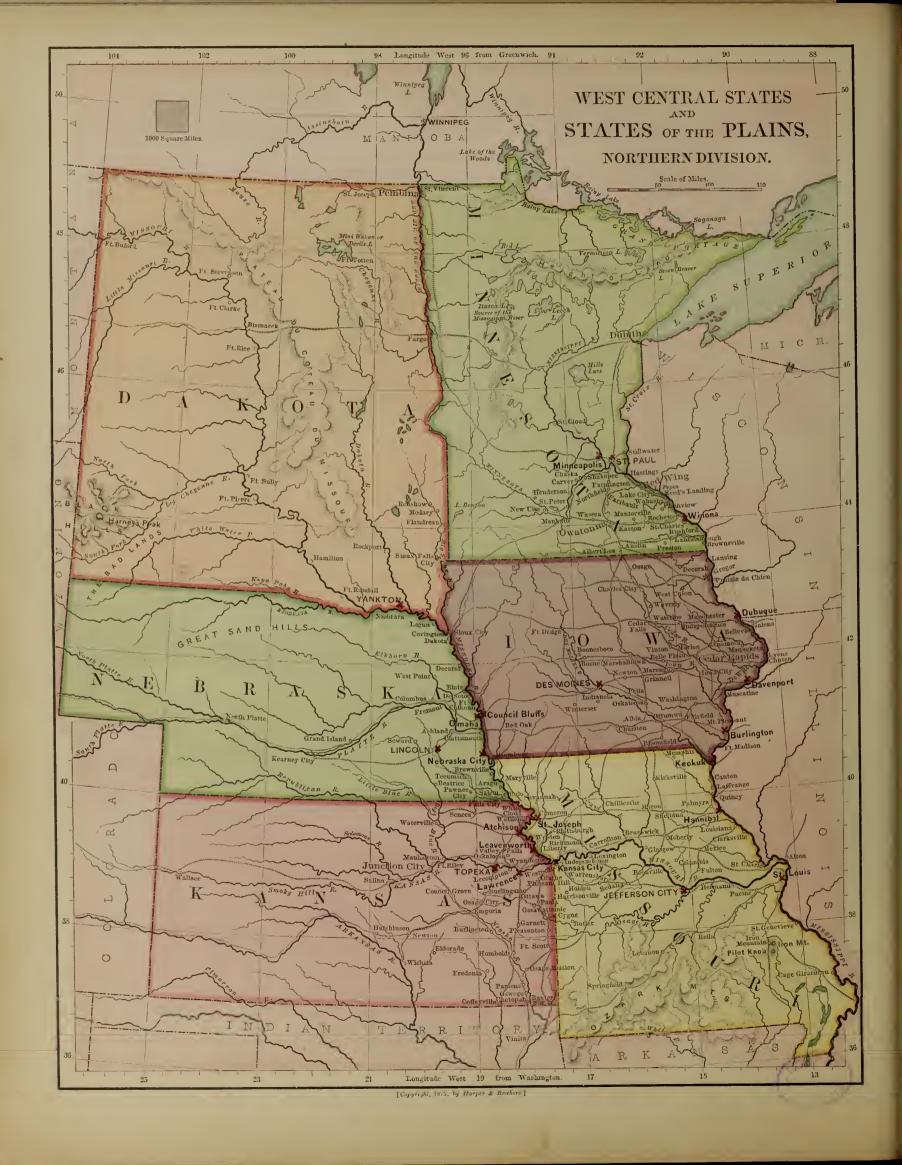
The country along the western coast of the southern peninsula is known as the Fruit Belt.

In winter the cold winds from Wisconsin become partly warmed in sweeping over the broad and open waters of Lake Michigan, and give to these shores so mild a winter climate that fruit trees are seldom injured by extreme cold.

Detroit, the eastern entrance to Michigan and the upper lakes, is the largest city. Grand Rapids, the second city, is noted for its lumber and water-power. Lansing is the capital.

Questions (I.)-1. Where is this group situated?-2. What peculiarity has its surface? Where are the prairie regions? The forest regions?—3. What is the character of the climate?-4. What minerals in the hilly region near Lake Superior? In that near the Ohio? Where is the lead region? Which of these states produces salt? -5. Name the two leading pursuits. What is said of the products? Of manufacturing and mining?—6. What is said of the commercial advantages? Name the three great water-ways. What do they form? What is said of this boundary? What cities are on the inner margin of this district? What cities are just outside of it? What is the chief business of these cities?—7. Who are the inhabitants?—8. For what is Ohio noted? Cincinnati? Cleveland? What cities are next in size? Which of these is the capital?—9. For what is Indiana noted? Indianapolis? What other important cities?-10. For what is Illinois noted? What is said of its coal-fields? For what is Chicago noted? What other important cities? What city is the capital?-11. What are the principal productions of Wisconsin? What is said of its lakes and waterpower? For what is Milwaukee noted? What other important places? What city is the capital?-12. For what is Michigan remarkable? Where is its fruit belt? For what is Detroit noted? Grand Rapids? What city is the capital?

(II.)—2. Where are the hilly regions?—6. What is said of the canal? Of the banks of the rivers of the Mississippi system? Of the depth of water? How high is the rise of the Ohio?—7. What is the character of the people of this group? Of the common schools? Name the chief elements of the foreign-born population.—10. What is the character of the surface of Illinois? Of what is Chicago the centre? What is said of its growth? Of its grading, drainage, and water-supply? With what calamity was it visited in 1871? What was the estimated loss? What is said of its present condition?—11. Where is most of the population of Wisconsin?—12. Where is most of the population of Michigan? Where are the forests? For what products do the North Central States furnish a market? What others are important? What part of the state is favorable to the production of fruit?



### LIV.

### QUESTIONS ON THE MAP.

General.—How many states and territories on this map? Which is the territory? Which three belong to the West Central States? (See page 29.) To what do the other three belong? Which is the smallest of the six? The largest? Which are crossed by the Missouri? Which are partly bounded by it?

Minnesota.—What chain of lakes forms the northeast boundary of Minnesota? What ridge in the northern part of the state? What great river rises in this state? In what lake? What branch crosses the southwestern part of this state? What river has its source very near that of the Minnesota? Why is the Red River of the North important? (Because it is the natural water route to the most-fertile part of the Dominion of Canada.) Into what lake does it flow? What city is the capital? What city west of it? (St. Anthony has become a part of Minneapolis.) What city in the southeast on the Mississippi? In what part of the state are most of the towns?

**Iowa.**—Between what rivers is Iowa? What river crosses it? What city is the capital? What city on the Missouri? What four cities on the Mississippi?

Missouri.—What mountains in the southwestern part of Missouri? What two mountains in the southeastern part? What river crosses the state? What city is the capital? What two other cities on the Missouri? What two on the Mississippi?

Dakota.—What mountains in the southwestern part of Dakota? What name is given to the country south of the Black Hills? What river crosses Dakota? What is its northern branch? What highland between the Dakota River and the Missouri? In what part of the territory are the towns? Which one is the capital?

Nebraska.—What boundary river has Nebraska? What branch in the northern part of the state? What is the character of the country south of the Niobrara? What river crosses the state? In what part of the state are most of the towns? What city is the capital? What cities on the Missouri River?

Kansas.—What river crosses the southwestern part of Kansas? What river north of the Arkansas? Of what river is it a branch? What two cities on the Kansas River? Which is the capital? What two cities on the Missouri? In what part of the state are most of the towns?

Travels.—What cities would you pass in a steamboat voyage from St. Louis to St. Paul? From St. Louis to Yankton? By rail from St. Louis to Topeka?

### LV.

### REVIEW EXERCISES.

States.—How bounded? What is the capital? The largest city?

	TRAL		STATES OF T		
States.	Area in Sq. Miles.	Population in 1870.	States.	Area in Sq. Miles.	Population in 1870.
Minnesota Iowa Missouri	55,000	440,000 1,194,000 1,721,000	Dakota T  Nebraska  Kansas	76,000	14,000 123,000 364,000

Cities and Towns.—In what part of the state? How situated?

St. Paul? Minneapolis? Winona?

DES MOINES? Davenport? Dubuque? Burlington? Keokuk? Council Bluffs?

JEFFERSON CITY? St. Louis? Kansas City? St. Joseph? Hannibal? YANKTON?

LINCOLN? Omaha? Nebraska City?

TOPEKA? Leavenworth? Lawrence? Atchison?

Mountains. — Where are they?

Height of Land? Ozark? Pilot Knob? Iron? Black Hills?

Rivers.—Where does it rise? In what direction does it flow? Through what states? Into what body of water?

Mississippi? Missouri? Minnesota? Red River of the North? Des Moines? Platte? Kansas?

[For Sections LVI. and LVII., see page 54.]

### WEST CENTRAL STATES AND STATES OF THE PLAINS.

### LVIII.

### WEST CENTRAL STATES.

- 1. The five states of this group form a belt of nearly equal width from the Gulf of Mexico to the northern boundary of the United States. (See map on page 28.)
- 2. **Surface.**—The West Central States resemble each other in the fertility of their soil and in the general level of their surface.

They are mostly low prairies, with timber in the "bottom lands." The only elevations are the short, low ranges of the Boston and Ozark Mountains, and the clay and sand hills of Minnesota.

Each state has the Mississippi as its eastern boundary, and is divided almost diagonally by a great navigable branch flowing towards the southeast.

3. Climate. — The chief difference is in climate,

winters of Minnesota to the almost tropical seasons of Louisiana.

4. **Productions.**—The difference in climate causes a corresponding difference in the products. Agriculture is the leading interest throughout this group of states. The great staples, in the order of latitude, are rice, sugar, cotton, corn, hemp, and wheat. There are also immense quantities of live stock.

Each of these states strongly resembles its eastern neighbor in climate, soil, and productions.

5. **Population.**—The population of the northern half of this group is mostly derived from the same sources and is of the same general character as that of the North Central States. Public education is provided for with equal liberality, and the common schools are among the first in excellence. The population of the southern half of the

How

Shreveport?

Baton Rouge?

Fort Smith?

LITTLE ROCK? NEW ORLEANS?

situated?

Cities and Towns.—In what part of the state?

# OUESTIONS ON THE MAP

General.—How many states and territories on this map? To what group do Arkansas and Louisiana belong? page 29.) Texas and Indian Territory?

Arkansas.-What ridge and mountains in the northweststate? What one crosses the southwest corner? What city ern part of Arkansas? What river crosses the centre of the is the capital? What town on the western border?

Indian Territory.--What river crosses the northeast What two lakes in the southeast? What cities on the Missis sippi River? Which is the capital? What city on Red River. Louisiana.--What river crosses the centre of Louisiana

Texas.—Name the six chief rivers of Texas. What bays part of Indian Territory? Which is the largest town?

on the coast? What city is the capital? What large city on the coast? Between Galveston and Austin? Southwest of Austin? On the Rio Grande?

AUSTIN? Galveston? Houston? San Antonio? Browns-

TAHLEQUAH?

sonville?

Mountains.—Where are they ?

Pea Ridge? Boston? Lakes. - Where is it?

## REVIEW EXERCISES

States.—How bounded? What is the capital? Largest city?

WEST CE	T CENTRAL STA! SOUTHERN DIVISION.	TATES:	WEST CENTRAL STATES: STATES OF THE PLAINS: SOUTHERN DIVISION.	TES OF THE PLA SOUTHERN DIVISION.	LAINS:
States.	Area in Sq. Miles.	Area in Population in 1870.	States.	Area in Sq. Miles.	Area in Population in 1870.
Arkansas	52,200 41,300	485,000	485,000 <i>Indian T.</i> 69,000 727,000 Texas 274,000	69,000	68,000

ville?

;;	mo .	
PLAINS 10N.	Area in Population in 1870.	68,000
TES OF THE PLA SOUTHERN DIVISION.	Area in Sq. Miles.	69,000
WEST CENTRAL STATES: STATES OF THE PLAINS: SOUTHERN DIVISION.	States.	Indian T Texas
STATES:	Area in Population in 1870.	485,000 727,000
T CENTRAL STA'SOUTHERN DIVISION.	Area in Sq. Miles.	52,200 41,300
WEST CE	States.	Arkansas Louisiana

In what direction does it

Rivers.—Where does it rise?

Borgne? Pontchartrain?

fow ? Through what states ?

Rio Grande?

Into what body of water?

Arkansas? Red? Sabine? Trinity? Brazos? Colorado?

Davenport, on the Mississippi, is the largest city. Dubuque, Burlington, and Des Moines, the capital, are important cities. 9. Missouri.—Missouri is noted for its advantageous central position, and for the variety

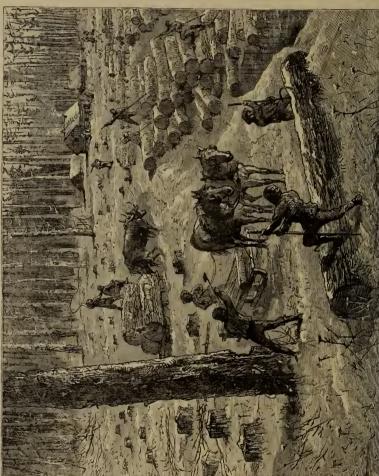
and extent of its agricultural and mineral wealth. It is the fifth state in population. Coal erals of civilization, are abundant and interest. Iron Mountain and Pilot Knob and iron, the two most important minexcellent; iron is the leading mineral are remarkable masses of iron-ore.

Lead-mining is an important interest, the rich and extensive deposits of lead-ore being among the most valuable resources of the state.

St. Louis, the metropolis of the Mississippi Valley, is the largest inland city of the United States, and is only exceeded in population by New York, Philadelphia, and Brooklyn.

tensive and rapidly increasing busi-Its chief manufactures are iron, flour, and machinery. As a depot for agricultural ness. Four great water-ways, the Missouri, Ohio, and Upper and Lower Misand grazing products it has a very exsissippi, with their numerous branches,

Iowa consists of fertile rolling prairies. In 1870 8. **Iowa.**—The greater part of the surface of it was the second state in the production of wheat and of Indian corn. It is also rich in coal and lead.



group is similar to that of the South Central States.

the many navigable rivers present remarkable 6. Commerce.—The numerous railways and

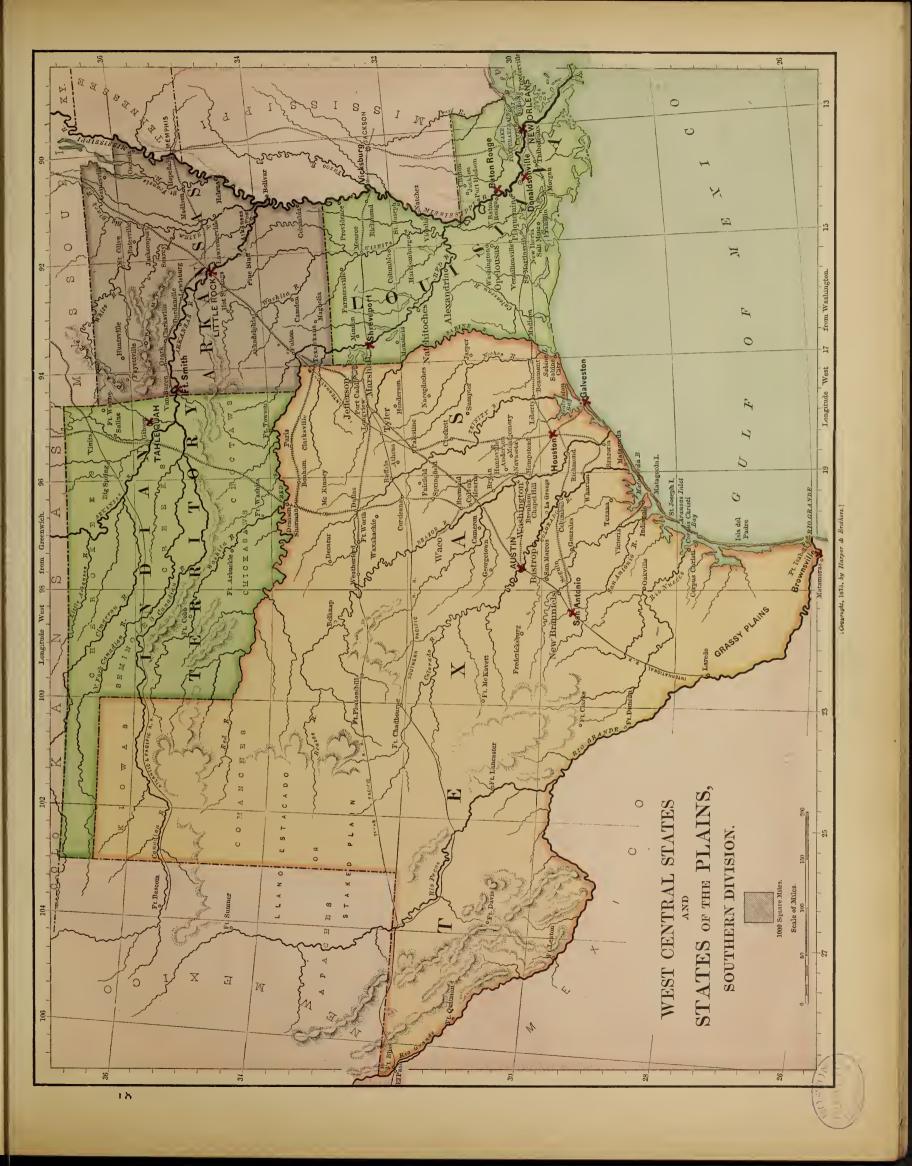
The chief commercial centre is St. Louis, in Missouri. St. Paul, in Minnesota, and New Orleans, in Louisicommercial advantages.

7. Minnesota. — Minnesota contains the crest of the Great Low Plain of North America.

ana, are also very important depots.

of the North into Hudson Bay, by the the Height of Land, flow by Red River St. Lawrence into the Atlantic, and by The waters from this crest, which is called the Mississippi into the Gulf of Mexico. In the north are numerous lakes.

It has many rapid rivers with inexnustible water-power. St. Paul, at the head of navigation rgest city. Minneapolis, at the Falls ater-power chiefly in the manufact-St. Anthony, employs its immense 1 the Mississippi, is the capital and e of lumber and flour.



make it the centre of many thousands of miles of river navigation, about 1000 miles being within the limits of the state or on its boundaries. Twenty-four lines of railway centre at St. Louis, and connect it with all parts of the country, from Galveston and Mobile to New York, Boston, and San Francisco. A great railroad bridge, with arches of steel, connects it directly with the railroads east of the Mississippi.

Other important places are Kansas City and St. Joseph. The capital is Jefferson City.

10. Arkansas.—The great staple of Arkansas is cotton.

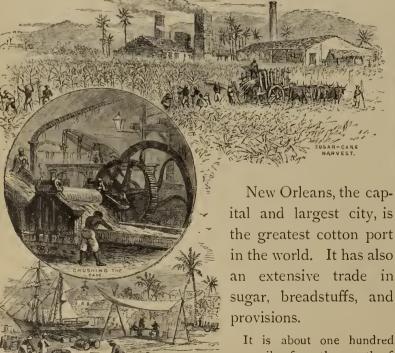
The other resources of this state are as yet but little developed. Little Rock is the capital and largest city.

11. **Louisiana.**—Louisiana was settled by the French. Their descendants, who still constitute a considerable part of the population, speak the French language, and are called creoles—that is, natives.

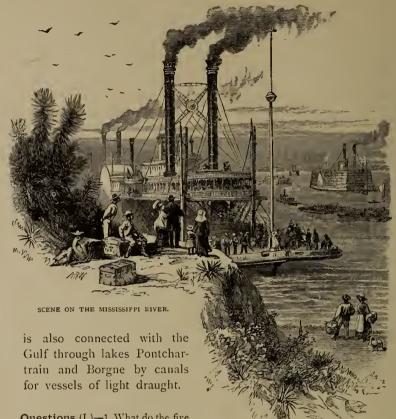


This state is in the lowest part of the Great Plain. The surface of the Lower Mississippi during the annual floods is several feet higher than the country through which it passes, especially in Louisiana, and broad walls of earth, called levees, have been constructed to confine it and its tributaries within their banks. Sometimes the water breaks through the levees, and hundreds of square miles of valuable sugar, rice, and cotton plantations are ruined. Such a breach is called a crevasse.

The state has no mineral wealth except a vein of pure rock-salt, singularly situated in a low island in the southern marshes, and of incalculable value.



It is about one hundred miles from the mouth of the Mississippi River. It



Questions (I.)—1. What do the five states of this group form?—2. In what re-

spects do they resemble each other? What river forms their eastern boundary? By what is each divided?—3. In what do they chiefly differ?—4. What other differences arise from difference in climate? What is the leading interest? Name the great staples in the order of their latitude. What other important products?—5. What is said of the population of the northern half of this group? Of public education? Of the common schools? Of the population of the southern half?—6. What commercial advantages has this group? What is the chief commercial centre? What other two important depots?—7. What elevation does Minnesota contain? For what is Minnesota noted? St. Paul? Minneapolis?—8. What kind of a surface has Iowa? What are its products? Which is the largest city? What other important towns?—9. For what is Missouri noted? For what is St. Louis distinguished? What other important places? What is the capital?—10. What is the great staple of Arkansas? What city is the capital?—11. By whom was Louisiana settled? Who are the creoles? For what is New Orleans noted? What other trade has it?

(II.)—2. What is the general character of the surface of the West Central States? What elevations have they?—4. What does each of these states resemble?—7. How is the Height of Land drained? Where are the lakes?—9. How does Missouri rank in population? What is said of its coal and iron? Which is the leading mineral interest? What remarkable iron-mines has it? What is said of its lead-mines? What manufactures has St. Louis? What other business has it? Of what is it the centre? What is said of its railway connections?—10. What is said of the resources of Arkansas?—11. Where is Louisiana situated? How does the height of its surface compare with that of the Mississippi? What are levees? What is their use? What is a crevasse? What mineral has this state? Where is New Orleans situated? In what other way is it connected with the Gulf?

### LIX.

### STATES OF THE PLAINS,

- 1. **Situation.**—This group of three states and two territories lies chiefly in the eastern division of the Great Western Highland.
- 2. **Surface.**—It consists principally of rolling prairies, and is part of the high plains that extend west to the Rocky Mountains.

from the stakes once set



up to show the "trail" from Santa Fé to the Mississippi.

- 3. **Inhabitants.**—The civilized inhabitants are mostly in the eastern part, near the great rivers, the country here being lower, better watered, and more fertile.
- 4. **Occupations.**—Agriculture and stock-raising are the principal occupations.
- 5. **Dakota.**—Dakota is an organized territory with a small population. It is better adapted to grazing than to agriculture.
  - It is crossed by the line of the North Pacific Railroad. "The Bad Lands" are a large, desolate tract in the southwest.

Yankton, a small town on the Missouri, is the capital.

6. Kansas and Nebraska.—Kansas and Nebraska resemble each other in climate and productions. The Kansas Pacific Railroad passes through Kansas, and the Union Pacific through Nebraska.

Leavenworth is the largest city in Kansas; Topeka is the capital. Omaha, on the Missouri, is the largest city in Nebraska; Lincoln is the capital.



SNOW - PLOUGH ON PACIFIC RAILROAD.

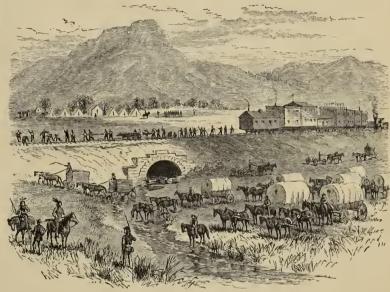
7. **Indian Territory.**—Indian Territory is a country set apart by Congress as the home of certain Indian tribes,

or nations, most of whom once resided east of the Mississippi. It is unorganized.

Tahlequah is the capital of the Cherokee nation.

- 8. **Texas.**—Texas is the largest state in the Union, and is noted for its great extent of fertile soil.
  - It is about five times the size of New York, or more than thirty times as large as Massachusetts. The population is rapidly increasing by immigration from the states east of the Mississippi and from Germany. There are no very large cities.

As a grazing and agricultural state its resources are immense. Corn, cotton, cattle, and wool are the chief staples.



CONSTRUCTING A RAILROAD

It has more fertile and well-watered land than all the rest of the states of this group taken together. The farms are mostly on the coast or in the river-bottoms.

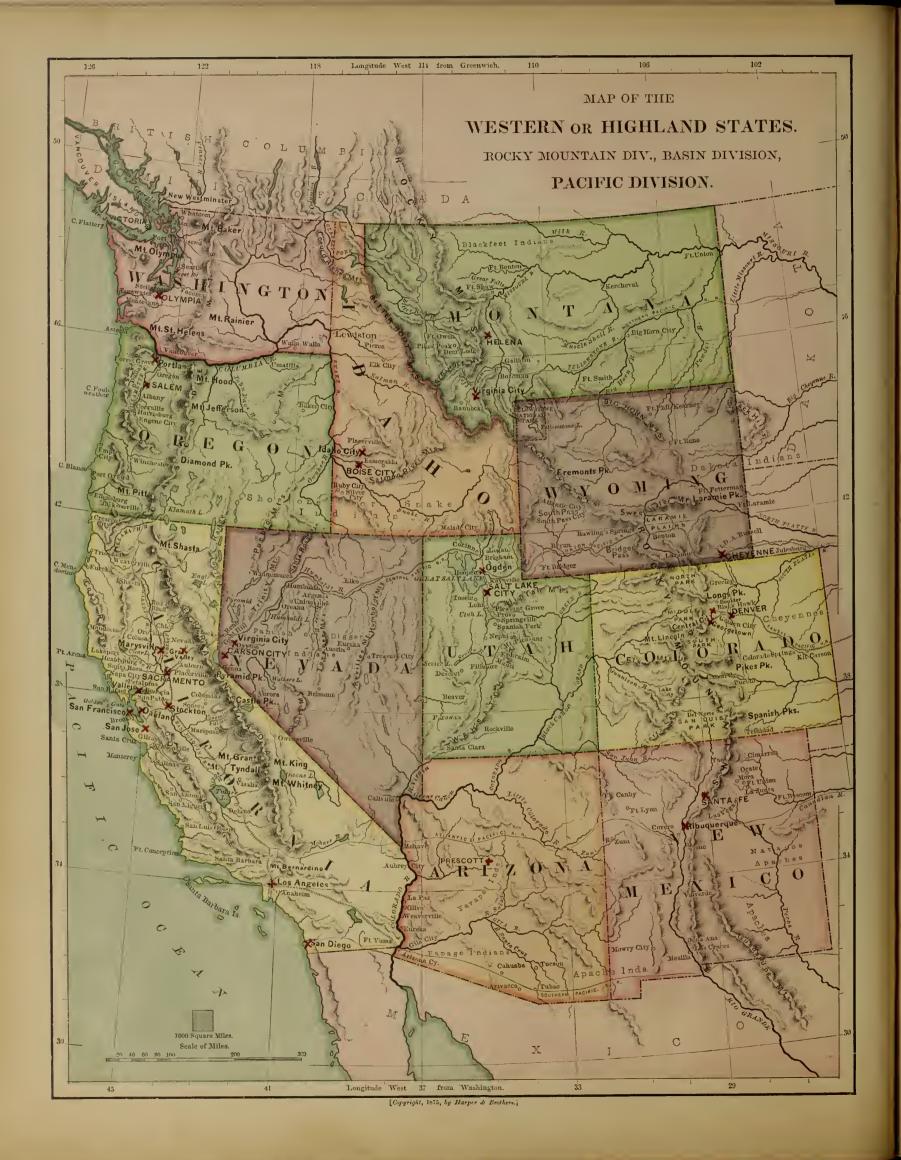
Texas has recently become one of the leading states in the production of cotton: it is said to have at least 25,000 square miles suitable for its cultivation. It has an equal area adapted to the cultivation of wheat. It has a very large trade in cattle, more than 600,000 having been driven to the north, through Indian Territory, Kansas, and Missouri, in a single year.

The northern part of the state has an abundance of coal, iron, and copper.

Galveston is the chief port and largest city; it is connected with St. Louis by railway. Houston is the principal railway centre. Austin is the capital.

Questions (I.)—1. Where is this group situated?—2. Of what does it principally consist?—3. Where are most of the inhabitants located? Why?—4. What are the chief occupations?—5. What is Dakota? To what is it best adapted? What town is the capital?—6. What two states resemble each other? What great railroads pass through them? Which is the largest city of Kansas? The capital? The largest city of Nebraska? The capital?—7. What is the Indian Territory?—8. For what is Texas remarkable? What is said of its resources? What are its chief staples? Its largest city? Its principal railway centre? Its capital?

(II.)—2. What name is given to these plains in Texas? Why?—5. What railroad line crosses Dakota? What and where are the Bad Lands?—8. What is the comparative size of Texas? What is said of the population? Of the cities? How does it compare in fertility with the other states of this group? Where are the farms? What is said of the production of cotton? Of wheat? Of the trade in cattle? In what part of the state are the minerals?



### LX.

### QUESTIONS ON THE MAP.

General.—How many groups of states and territories on this map? (See page 29.) How many states and how many territories in each group? What territory on the Pacific is not on this map? (Alaska.) In what direction do the Rocky Mountains extend in Wyoming and Montana? In Colorado and New Mexico? Which is the principal mountain range in Washington and Oregon? What is it called in California? What mountain ranges along the coast? In what states? What great river breaks through the Cascade Mountains? Which are its two chief branches? Through what territories does the Colorado flow? What two rivers form it? What branch near its mouth?

Montana.—Which are the two chief rivers of Montana? What proposed railroad will cross it? What town is the capital? What town south of Helena? In what part of the territory are most of the towns?

Wyoming.—What mountain range in the western part of Wyoming? What peak in this range? What river in the southeastern part of this territory? What park is mostly in Wyoming? In what part? What lake in the park? What railroad crosses this territory? In what part? What town is the capital?

Colorado.—What four natural parks are in Colorado? Which is the largest? What mountain peaks in this state? What river in the northeastern part of this state? What railroad enters Colorado from Kansas? What city is the capital? What two towns west of Denver? What river drains the western part of the state? On which side of the parks are most of the towns?

**New Mexico.**—What river passes through New Mexico? What two proposed railroads cross this territory? What town is the capital? What town southwest of Santa Fé?

Idaho.—Which is the chief river of Idaho? What town is the capital? What town north of Boisé City?

Nevada.—In what part of Nevada are most of the towns? What town is the capital? What town north of Carson City?

Utah.—What chain of mountains in the northeast of Utah? What chain southwest of the Uintah Mountains? What lakes in this territory? What city is the capital? Near what railroad? What town north of it on the railroad?

Arizona.—What two rivers cross Arizona? What proposed railroads? What canons in the Colorado River? Where are most of the towns? What town is the capital?

Alaska.—What is the principal river of Alaska? (See Map of North America.) What is the chief town? On what island is it?

Washington.—What cape in the northwestern part of Washington Territory? At the entrance of what strait? In what part of the territory are the towns? On what sound? What is the capital? What proposed railroad crosses this territory?

Oregon.-What two boundary rivers has Oregon? In what part of

the state are most of the towns? What city is the capital? What city north of Salem? On what river? Of what river is it a branch?

California.—Which is the chief mountain range in California? What peak at the northern end of the Sierra Nevada Mountains? What two peaks near their southern extremity? Which is the largest lake in the state? Which are the two chief rivers? Through what famous valley does a branch of the San Joaquin flow? What river in the northern part of the state separates the Cascade Mountains from the Sierra Nevada? What strait at the entrance of the Bay of San Francisco? What city is the capital? What city nearly south of Sacramento? North of Sacramento? Northeast of Sacramento? West of Stockton? West of Oakland? South of Oakland? North of Oakland? What two towns on the southern coast?

### LXI.

### REVIEW EXERCISES.

States and Territories.—How bounded? What is the capital? The largest city?

ROCKY MOUNT'N DIVISION.			BASIN DIVISION.			PACIFIC DIVISION.		
States or Territories.	Area in Sq. Miles.			Area in Sq. Miles.	Pop. in 1870.		Area in Sq. Miles,	Pop. in 1870.
Montana T	144,000	21,000	Idaho T	86,000	15,000	Alaska T	577,000	70,000
Wyoming T	98,000	9,000	Nevada	104,000	42,000	Washington T.	70,000	24,000
Colorado	106,000	40,000	Utah T	84,500	87,000	Oregon	95,300	91,000
New Mexico T.	121,000	92,000	Arizona T	114,000	10,000	California	189,000	560,000

Cities and Towns.—In what part of the state? How situated?

HELENA? Virginia City?

CHEYENNE?

DENVER? Central City? Georgetown?

SANTA FÉ? Albuquerque?

Boisé City? Idaho City?

CARSON CITY? Virginia City?

SALT LAKE CITY? Ogden?

Prescott?

Sitka?

OLYMPIA?

SALEM? Portland?

SACRAMENTO? San Francisco? Oakland? Stockton? San José? Grass Valley? Vallejo? Los Angeles? Marysville? San Diego?

Mountains.—Where are they?

Rocky? Wind River? Uintah? Wahsatch? Cascade? Sierra Nevada? Coast ranges? Fremonts Peak? Pikes Peak? Mount Shasta? Mount Tyndall? Mount Whitney? Mount Lincoln?

Rivers.—Where does it rise? In what direction does it flow? Through what states? Into what body of water?

Missouri? Yellowstone? Colorado? Gila? Green? Grand? Sacramento? San Joaquin? Klamath? Columbia? Snake? Clarkes Fork?

Lakes.—Where is it?

Yellowstone? Great Salt? Tulare? Utah?

### WESTERN STATES.

### LXII.

### WESTERN STATES: ROCKY MOUNTAIN DIVISION.

1. **Surface.**—This group contains the great water-shed of North America.

The Rocky Mountains, the highest in North America, under various names, cover the greater part of this division.

The Great Plains constitute the eastern part of the group, and extend to the base of the mountains.

2. The most important valleys enclosed by the Rocky Mountains are the four parks of Colorado.

Some of these are as large as Connecticut or New Jersey. In the front range or eastern wall of the parks are several peaks over 14,000 feet high. The great central chain of the Rocky



GEYSER OF THE YELLOWSTONE

Mountains, known as the Sierra Madre or National range, reaches a great elevation on the west side of the parks. From the top of Mount Lincoln the eye sweeps over a wilderness of high peaks, two hundred of which are nearly 13,000 feet, and not less than twenty-five over 14,000 feet high.

3. **Rivers.**—The only navigable rivers are the Missouri and the Yellowstone in Montana.

The snow on the sides and summits of the lofty mountain ranges, melting under the summer sun, is an unfailing supply to the rivers during the months of drought. These rivers are invaluable as means of irrigation.

4. Climate.—The mildness of the winter climate on the east side of the Rocky Mountains, especially in the North and far into British America, is a remarkable fact in the physical geography of this group. It is of exceeding importance in relation to the settlement of these regions.

Notwithstanding the latitude and the elevation, the climate grows milder and the snow disappears from the plains as we approach the great range. This will probably be in the future the great grazing region of the continent. Cattle unhoused can live all winter upon the rich grass that covers these plains. They have for ages been the feeding-ground of millions of buffaloes. The immense herds of these valuable wild animals will probably soon be exterminated.

Timber is scarce except on the slopes and in the enclosed valleys of the ranges north of Central Colorado. Towards the south the country grows more and more arid, till in New Mexico the land-scape is generally one of desolation.

- 5. **Population.**—The entire population of this group in 1870 was less than one third of that of Connecticut, which has about one one-hundredth of the area.
- 6. **Occupations.**—Mining is almost the only occupation, except in New Mexico, although agriculture is rapidly developing in Colorado. This group is very rich in metals and other valuable minerals.
  - 7. Montana.—Montana is yet to a great extent unex-

plored. It is known to have a fine climate, much rich soil, and great mineral wealth.

It already produces a large amount of gold.

Helena is the capital and largest city.

8. **Wyoming.**—Wyoming is almost as elevated as Colorado.

The Wind River Mountains, the highest chain, contain the sources of the Snake, the Missouri, the Yellowstone, the Platte, and the Colorado rivers.

This territory includes the greater part of the Yellowstone National Park, which surrounds Yellowstone Lake, and has an area of nearly 3600 square miles. Its deep cañons, lofty falls, and numerous bathing pools, geysers, and lakes, make it in many respects the most wonderful portion of the continent, and even of the world. It has been set aside by Congress as a "perpetual reservation for the benefit and instruction of mankind."

Cheyenne is the capital.

9. **Colorado.**—Colorado contains the Great Parks and the loftiest ranges of the Rocky Mountains.

It is rich in mines of gold, silver, coal, iron, and salt. The mountain "pineries" furnish a large amount of lumber. Grazing is becoming a leading industry. Irrigation is extensively employed in agriculture. The population is rapidly increasing.

Denver, the capital and largest city, is about 5000 feet above the sea.

10. **New Mexico.**—New Mexico was settled nearly three centuries ago (1599) by the Spaniards.

The inhabitants are chiefly a mixed race, descended from civilized Indians and the Spanish settlers; they are mostly in the fertile Valley of the Rio Grande, a narrow, swift, and shallow stream, nearly all the waters of which are consumed in irrigation in dry seasons. The population of the territory has increased but little



during the twenty-five years that it has been a part of the United States. Spanish is the only language spoken. There are as yet neither manufactures, railroads, nor common schools.

Santa Fé, 6840 feet above the sea, is the capital and largest city.

Questions (I.)—1. What does this group contain?—2. Which are the most important valleys?-3. Which are the only navigable rivers?-4. What remarkable fact in regard to climate? Why important?—5. What is said of the population?—6. What is the principal occupation? What partial exceptions? In what is this group rich? -7. What is said of Montana? What is it known to have? What is the capital and largest city?—8. What is said of Wyoming? What is the capital?—9. For what is Colorado noted? What is its capital and largest city?—10. When and by whom was New Mexico settled? What is its capital and largest

(II.)-1. What mountains in this division? What is the character of the eastern part?-2. What is the size of these parks? What peaks east of them? What mountain chain west of the parks? What is said of the view from Mount Lincoln? -3. What are the effects and uses of the snow?-4. What is the character of this part of the plains? To what is it best adapted? Why? What is said of the buffaloes? Where is timber found? What is the character of the country towards the south?-7. What does Montana produce ?-8. What is said of the highest mountain chain of Wyoming? Of the National Park ?-9. What minerals has Colorado? What other industries? What is said of its population?-10. Who are the present inhabitants of New Mexico? Where are they? What is the character of the Rio Grande? What is said of the population? What language is spoken? What is the general condition of this territory?

### LXIII.

### WESTERN STATES: BASIN DIVISION.

- 1. Situation. Nevada and the three territories Idaho, Utah, and Arizona occupy the central and larger part of the Great Basin, which is nearly enclosed by the Sierra Nevada, Cascade, and Rocky Mountains.
- 2. Surface.—The surface is very rugged and uneven.

Numerous short parallel chains cover nearly the whole region. The lofty Wahsatch chain divides the high plateau of the Colorado, the waters of which flow to the Gulf of California, from the lower plateau of the Great Basin, where the swift streams are lost in salt lakes near the foot of its mountain walls.

3. Climate.—The climate is exceedingly dry. This is particularly the case in the south, where the summers are very hot; in the extreme north the winter is cold, with deep snows.

The temperature is very variable. In consequence of the great

extent of dry soil and naked rock, an intensely warm day is followed, even in midsummer, by a cold night.

- 4. Vegetation.—There is no timber. The brown sagebush in the north and the cactus in the south are the characteristic vegetation.
- 5. **Population.**—More than half the population is in Utah, and most of the remainder is in Nevada.
- 6. Occupations. The chief occupation in Utah is agriculture; in the remaining regions, mining.

7. Idaho. - Idaho produces large amounts of gold and silver.

Boisé City is the capital.

8. Nevada. — Nevada is remarkable for producing four fifths of the silver and more than half of the lead mined in the United States.

> Virginia City is famous for its rich mines of silver.

> > A single vein of one of these mines is said to have recently yielded over \$22,000,000 in fourteen months.

Carson City is the capital.

The towns are at the silvermines, on the eastern slope of the Sierra Nevada.

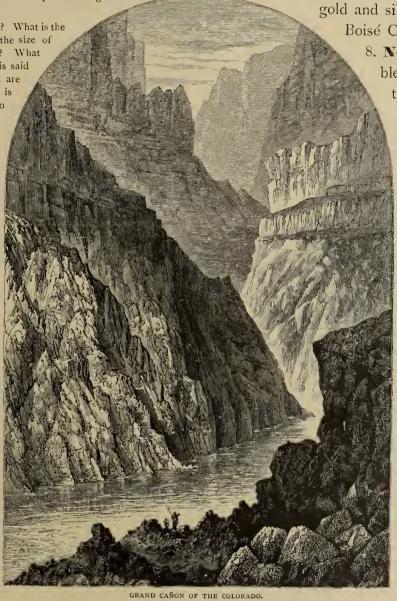
9. Utah.—Utah is remarkable as the home of the Mormons, or Latter-day Saints; they constitute four fifths of the population.

> Their religion has many peculiarities, the most important of which is polygamy. The Mormons occupy fertile valleys at the western base of the Wahsatch range, and carry on an extensive agriculture by means of irriga-

Salt Lake City is the capital and largest city.

10. Arizona.—Arizona and Southern California have a drier climate than any other part of the United States.

The annual rain-fall near the mouth of the Colorado is only about three inches; that of Southern Alabama is sixty-three inches. The cañons of the Colorado are the greatest and deepest river gorges in the world. The river is navigable to Callville; beyond this for more than three hundred miles the river and its tributaries flow with great swiftness through narrow chasms with nearly perpendicular walls, and over rocky beds from 3000 to 6000 feet below the general level of the plateau.



Arizona has a small population. Its rich mines of gold and silver are as yet but little worked. The Apaches, "the Bedouins of America," are the most savage and troublesome Indians in the United States.

Prescott is the capital.

Questions (I.)—1. What region does this group occupy?—2. What is the character of the surface?—3. Of the climate? What is the climate in the south? In the north?—4. What is the vegetation?—5. Where is most of the population?—6. The chief occupation in Utah? In the remaining regions?—7. What does Idaho Territory produce? What is the capital?—8. For what is the State of Nevada remarkable? For what is Virginia City fanous? What is the capital?—9. For what is Utah Territory remarkable? What city is the capital?—10. For what is Arizona Territory remarkable? What is the capital?

(II.)—2. What is said of the mountain chains? How does the Wahsatch chain divide this section?—3. What is said of the temperature?—8. Of the amount of silver yielded by a single vein? Where are the towns?—9. What peculiarity has the religion of the Mormons? Where are the Mormons located? What is their chief occupation?—10. How does the rain-fall of Arizona compare with that of Southern Alabama? What is said of the cañons of the Colorado? Of the population? Of the mines? Of the Apaches?

### LXIV.

### WESTERN STATES: PACIFIC DIVISION.

1 **Surface.**—The lofty range known in California as the Sierra Nevada, and in Oregon and Washington as the Cascade, passes through this entire group of states.

It is nearly as high as the Rocky Mountains, but has fewer passes. East of these mountains is a portion of the great interior arid plateau; in Washington it is called the Great Plain of the Columbia, and is about 2000 feet above the ocean.

Near the coast is a series of short, low chains, called the Coast ranges.

They are parallel to the great interior chain. The coast is very bold, and without islands.

Between the high chains and the Coast ranges are three important valleys: the Valley of Puget Sound, in Washington; the Valley of the Willamette, in Oregon; and the California Valley. Each of these valleys is the most fertile and important part of the state or territory in which it is situated.

2. **Climate.**— The climate west of the great mountain range is mild and equable in temperature, but has great extremes of moisture.

Puget Sound has a greater rain-fall than any other part of the United States except Alaska.

3. **Occupations.** — Agriculture, manufacturing, mining, and lumbering are the leading pursuits.

4. Commerce. — Internal com-

merce, except over the Pacific Railroad, is quite limited. The mountains have few passes, and there are few railroads or navigable rivers. The Columbia is navigable to where it breaks through the Cascade Mountains, and again beyond them to Umatilla; the Sacramento and San Joaquin are navigable for a large part of their course; the Colorado is navigable more than 200 miles, to Callville, at the mouth of the Grand Cañon.

5. **Alaska.**—The great outlying territory of Alaska, including the Aleutian Islands, was purchased of Russia in 1867.

Mountain chains extend along the whole coast and through the islands; they contain many volcanoes. The area of Alaska is over 500,000 square miles. The greater part has a severe Arctic climate. The west coasts have a mild, rainy climate. The rainfall at Sitka, the only settlement, is about ninety inches a year; there are but few clear days. In the south are heavy forests.

This territory is unorganized, and for purposes of government is attached to Washington Territory as a county. The inhabitants are mostly Indians, Esquimaux, and half-breeds.

They live on the coasts and islands, being almost exclusively dependent upon the fisheries, which are among the most valuable in the world. The skins of the fur-seal are the chief article of export.

6. **Washington.**—Washington is the only organized territory of the United States having a sea-coast.

In the number and excellence of its bays and harbors it is not surpassed.

The eastern half is a grazing country; owing to the mild and moist climate, the western half is densely covered with valuable forests of pine and cedar. The short streams falling into Puget Sound furnish exhaustless water-power. Coal is abundant.

The principal export is lumber. Olympia is the capital.

7. **Oregon.**— The greater part of the population of Oregon is in the fertile Valley of the Willamette. Wool-growing and stock-raising are the principal occupations.

The salmon fisheries of the Columbia are of great and increasing importance. Canned salmon is a leading article of export.

Though in the latitude of New England, cattle spend the winter in green fields.

This state exports large quantities of wheat and lumber.

The coast is deficient in harbors, and the mouth of the Columbia is obstructed by a dangerous bar.

Portland, on the Willamette, is the largest city. Salem is the capital.



BIG TREES OF CALIFORNIA

8. California. — California produces more gold and more wine than any other state in the Union. In manufactures it surpasses every other state west of the Appalachian Mountains except Ohio and Illinois. It contains the great double Valley of the Sacramento and the San Joaquin, which is connected with the Pacific Ocean by the Golden Gate at San Francisco, and with the Mississippi Valley by the Union Pacific Railroad.

The variety and value of the agricultural and mineral riches of this valley are beyond brief description, and make California a proverb for wealth and fruitfulness throughout the

world. The yield of the vast gold-fields of the Sierra places California among the first of the gold-producing countries; yet the annual manufacturing products already greatly exceed the value of the mineral products, while the results of agriculture nearly equal all the others together.

Wheat, barley, wine, and fruits are excellent in quality and wonderful in quantity. The soil and climate of the southern part of the state are favorable to the cultivation of the orange, olive, fig, almond, and other tropical fruits. They are also favorable to the growth of the mulberry-tree, whose leaves are the food of the silkworm.

The fertile soil, the equable temperature of its climate, and the succession of rainy and dry seasons which form its year, give to California the most productive agriculture in the United States.

The area of the state is rather greater than that of all of the Atlantic States north of the Potomac.

San Francisco, famous for its magnificent harbor and its export of gold and wheat, is the largest city of the Pacific coast from Cape Horn to Japan.

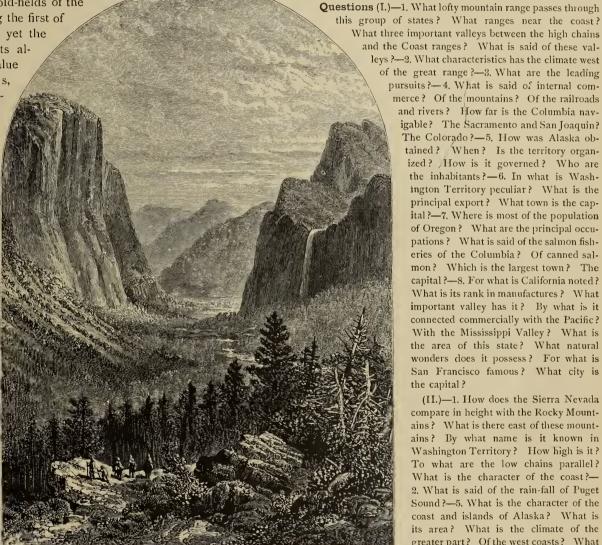
It is at the western end of the Central Pacific Railroad, and has an extensive and growing commerce with Europe, the Mississippi Valley, and the Atlantic States, and with the countries and islands of the Pacific Ocean. A large part of the trade with the Atlantic States is carried on by means of ocean steamers and the Panama Railroad. It imports large quantities of tea and silk from Japan and China in exchange for grain.

Sacramento, the second city in population, is the capital.

> this group of states? What ranges near the coast? What three important valleys between the high chains and the Coast ranges? What is said of these valleys?—2. What characteristics has the climate west of the great range?-3. What are the leading pursuits?-4. What is said of internal commerce? Of the mountains? Of the railroads and rivers? How far is the Columbia navigable? The Sacramento and San Joaquin? The Colorado?-5, How was Alaska obtained? When? Is the territory organized? How is it governed? Who are the inhabitants?-6. In what is Washington Territory peculiar? What is the principal export? What town is the capital?-7. Where is most of the population of Oregon? What are the principal occupations? What is said of the salmon fisheries of the Columbia? Of canned salmon? Which is the largest town? The capital?—8. For what is California noted? What is its rank in manufactures? What important valley has it? By what is it connected commercially with the Pacific? With the Mississippi Valley? What is the area of this state? What natural wonders does it possess? For what is San Francisco famous? What city is

(II.)-1. How does the Sierra Nevada compare in height with the Rocky Mountains? What is there east of these mountains? By what name is it known in Washington Territory? How high is it? To what are the low chains parallel? What is the character of the coast?-2. What is said of the rain-fall of Puget Sound?-5. What is the character of the coast and islands of Alaska? What is its area? What is the climate of the greater part? Of the west coasts? What is the amount of rain-fall at Sitka? Where are the forests? Where do the

inhabitants live? Upon what are they dependent? What is the chief article of export?-6. What is said of the bays and harbors of Washington Territory? What is the character of the eastern half? Of the western half? Of the rivers? What mineral is abundant?-7. How does the climate of Oregon compare with that of New England? What articles are exported? What is said of the harbors on the coast? Of the mouth of the Columbia?—8. What is said of the agricultural and mineral riches of California? How does California rank among the gold-producing countries? How do the manufactures compare with the mineral products? How do the agricultural products compare with the manufacturing and mineral products? What is said of the wheat, barley, wine, and fruits? Of the tropical fruits? Of the mulberry-tree? What causes give California the most productive agriculture in the United States? How does the population of California compare with that of the State of New York? Describe the Big Trees. The Yosemite Valley. What is said of the commerce of San Francisco? What other trade route between San Francisco and the Atlantic States? In what does the trade with Japan and China consist?



Its population in 1870, including more than 40,000 Chinese, was but little more than one eighth of that of the State of New

The Big Trees and the Yosemite Valley are two of the chief wonders of nature.

These trees are gigantic evergreens, some of which are more than 100 feet around, 400 feet high, and 3000 years old.

The Yosemite Valley is a remarkable chasm ten miles long and three in greatest width, with perpendicular walls of granite from 3000 to 5000 feet high, over which the Merced River falls, in three leaps, more than 2000 feet.

### COMMERCIAL UNITED STATES.

### LXV.

### INDUSTRIES OF THE UNITED STATES.

I.—1. Agriculture, the chief source of food, and the basis of all other industries, is by far the most important occupation of the people of the United States. The following are the leading products.

2. Maize or Indian Corn is the principal grain. In some years the product has exceeded 1000 millions of bushels. Comparatively a small part is exported; the greater part is used in fattening cattle, swine, etc.

- 3. Wheat, the chief bread grain, is the second in quantity and in value. The annual export is greater than that of all other grains, but seldom exceeds one fifth of the product. Great Britain is the chief foreign purchaser. A much greater part is distributed to the manufacturing, mining, and cotton districts of the United States.
- 4. Oats, barley, rye, buckwheat, and rice are the other grains. Barley is used chiefly in the manufacture of beer; a considerable part of the wheat, rye, and maize is converted into whiskey.
- 5. Hay and Potatoes are of great total value, but are too bulky to pay for long transportation.
- 6. Tobacco is a very important product, and is one of the chief articles of export. Nearly half of it is produced in Kentucky.
- 7. Cotton is the largest and most valuable export of the United States. Great Britain buys much the greater part, but large quantities are sent to nearly every country of Europe. The crop sometimes exceeds 4 millions of bales, of 450 pounds each.
  - 8. Sugar is a limited crop. Nearly all of it is produced in Louisiana.

Note.—Products in 1870, and Leading States.—Maize, 761 millions of bushels; Illinois, Iowa, Ohio, Missouri, Indiana, and Kentucky. - IVheat, 288 millions; Illinois, Iowa, Ohio, Indiana, Wisconsin, Minnesota, and California. - Oats, 282 millions; Illinois, New York, Pennsylvania, and Ohio. - Barley, 30 millions; more than one half from California and New York.—Rye, 17 millions; Pennsylvania, New York, Illinois, and Michigan. - Buckwheat, 10 millions; more than one half from New York and Pennsylvania.—*Rice*, 73 millions of pounds; South Carolina, Georgia, and Louisiana.—*Hay*, 27 millions of tons; New York, Pennsylvania, Illinois, and Ohio.—*Potatoes*, 165 millions of bushels; New York, Pennsylvania, Ohio, and Illinois. - Tobacco, 263 millions of pounds; Kentucky, Virginia, Tennessee, and Ohio. - Cotton, 3 millions of bales; Mississippi, Alabama, Georgia, Texas, and Arkansas.—Sugar, 87,000 hogsheads; Louisiana, Texas, Tennessec, and South Carolina.

II.—1. Grazing is a department of agriculture.

- 2. Butter and cheese are produced in great quantities in the hay districts of the Middle Atlantic and North Central States, and are among the leading articles of export.
- 3. Cattle are also raised for beef, hides, and tallow in many parts of the country, but chiefly between the Mississippi River and the Rocky Mountains, and in the Pacific and North Central States.
- 4. Sheep are raised chiefly for mutton, wool, skins, and tallow. Cali-
- fornia, Ohio, and Illinois are the leading states in wool-growing.

  5. Swine are raised for pork and lard. The chief supply is from the maize country. St. Louis, Chicago, Cincinnati, Boston, New York, and other cities are extensively engaged in the packing of pork, lard, and beef. The greater part is sent to the cotton states and to the mining and manufacturing districts, and there is a large export trade to Europe, the West Indies, and South America.
- III.—Forest products.—Lumber, turpentine, and bark are the chief forest products. Maine, North Carolina, and Canada furnish the chief supply of lumber for the Atlantic States; Michigan, Wisconsin, and Minnesota for the Central; and Oregon and Washington for the Pacific States, Turpentine is obtained from the Carolina pine-forests. The bark of the oak and the hemlock is of great value for tanning.
- IV.—Fishing.—The New England States furnish the chief supply of cod, mackerel, herring, shad, salmon, and lobsters. Besides these varieties are oysters from the Chesapeake, white-fish from the Great Lakes, and salmon from the Pacific coast.
- V.—1. Minerals.—Coal and iron are the most important of minerals. In these two substances the United States is the richest country in the

world. The chief deposits of coal are found in a broad belt extending from Maryland and Eastern Pennsylvania to Kansas and Nebraska. There are also valuable deposits in the Rocky Mountains. The principal iron mines are in the Appalachian Mountains, on the borders of Lake Superior, and in Missouri. Pennsylvania exceeds all other states in the production of both coal and iron. The production and the manufacture of iron are among the most important industries of the United States, especially in the Ohio Valley and in Missouri.

2. Petroleum is supplied chiefly by western Pennsylvania. The refined oil, known as kerosene, is one of the leading exports, and is sent to near-

ly every civilized country.

3. In the production of gold and silver the United States surpasses every other country in the world. The chief supply is obtained from the Western Highland. It is nearly all exported. California produces the greatest amount of gold and Nevada of silver.

4. Among the other important mineral products are copper from Northern Michigan; lead from Nevada, Utah, and Missouri; and salt from New York, Michigan, West Virginia, and Louisiana.

VI.-Manufactures. - The principal manufacturing district of the United States lies east of the Appalachians, and between Portland and Baltimore. The second district is in the North Central States. The leading manufactures of the several states have already been described.

Questions. I.—1. What is said of agriculture?—2. Which is the principal grain? What is said of it?—3. Which grain is second in importance? What is said of the export? What country is the chief purchaser? How is the rest distributed?—4. Name the other grains in the order of their importance. What is the chief use of barley? What grains are in part converted into whiskey?—5. What is said of hay and potatoes? -6. Of tobacco?—7. Of cotton?—8. Of sugar

II.—1. What is said of grazing?—2. Of butter and cheese?—3. For what other purposes are cattle raised? Where?-4. Which are the chief sheep products? The principal wool states?—5. The chief swine products? What is said of the packing trade?

III.—Name the leading forest products. Name the chief sources of the supply of lumber. Of turpentine. What barks are used in tanning?

IV.—Where are the chief supplies of fish obtained?

V.-1. Which are the most important of minerals? What is said of the coal and iron of the United States? Where are the chief coal deposits? The principal iron-mines? Which is the leading state in coal and iron? What else is said of the iron industry?-2. What is said of petroleum? Of kerosene?-3. Of gold and silver?-4. What is said of the other important mineral products?

VI.—Where is the principal manufacturing district? The second district?

### LXVI.

### TRANSPORTATION.

RAILROADS. I.—The principal railroads of the United States are called trunk lines, and may be divided into Eastern, Central, Southern, and Western. Trunk lines are usually long, and bear almost the same relation to the less important roads that a main river does to its branches.

- II.—Eastern Trunk Lines. The principal eastern trunk lines lie chiefly in the Middle Atlantic States. They are five in number, and are of leading importance in the railway system of the United States. The greater part of the surplus products of the northern half of the Mississippi Valley finds its way to a market over the last four of these lines.
- 1. Grand Trunk-from Portland, through Montreal and Toronto, to Detroit (861 m.). It lies mostly in Canada.
- 2. New York Central and Hudson River-from Albany, through Utica, Syracuse, and Rochester, to Buffalo (298 m.). At Albany it forks into two important lines-the Hudson River Railroad to New York (142 m.), and the Boston and Albany to Boston (201 m.).
- 3. New York, Lake Erie, and Western-from New York, through Elmira and Hornellsville, to Buffalo (424 m.), with a branch to Dunkirk.
- 4. Pennsylvania—from Philadelphia, through Harrisburg and Altoona, to Pittsburgh (354 m.). The New Fersey Railroad, from Philadelphia to New York (90 m.), is its eastern extension.

5. Baltimore and Ohio—from Baltimore, through Cumberland, to Parkersburg, with a branch through Wheeling to Chicago (852 m.).

III.—Central Trunk Lines.—These lines lie in the North Central States. Among many important lines the following are prominent:

- 1. Michigan Central—from Detroit, through Jackson and Kalamazoo, to Chicago (284 m.). Extension of the principal Canada roads.
- 2. Lake Shore and Michigan Southern—from Buffalo, through Erie, Cleveland, and Toledo, to Chicago (539 m.). Extension of New York Central, New York, Lake Erie, and Western, etc.
- 3. Toledo, Wabash, and Western—from Toledo, through Fort Wayne, Logansport, Lafayette, and Springfield, to Hannibal, Mo., and Quincy, Ill. (474 m.). Extension of *Lake Shore*.
- 4. Atlantic and Great Western—from Salamanca, through Mansfield and Dayton, to Cincinnati (448 m.). Extension of New York, Lake Erie, and Western.
- 5. Pittsburgh, Fort Wayne, and Chicago from Pittsburgh, through Mansfield and Fort Wayne, to Chicago (468 m.). Extension of the *Pennsylvania*.
- 6. Pittsburgh, Cincinnati, and St. Louis, or "Pan-Handle Route"—from Pittsburgh, through Columbus, to Cincinnati, and through Richmond to Indianapolis. Continued in the St. Louis, Vandalia, Terre Haute, and Indianapolis Road, through Terre Haute to St. Louis (619 m.). Extension of the Pennsylvania.
- 7. Marietta and Cincinnati and Ohio and Mississippi—from Parkersburg, through Cincinnati, to St. Louis (545 m.). Extension of *Baltimore and Ohio*.
- 8. Illinois Central—from Cairo, through Centralia, to Chicago (365 m.), and through Bloomington to Dubuque (456 m.).
- 9. Chicago and Alton—from Chicago, through Bloomington, Springfield, and Alton, to St. Louis (280 m.).

IV.—Southern Trunk Lines.—These include most of the lines of the South Atlantic and South Central States.

- 1. A line from Washington through Lynchburg and Knoxville to Chattanooga; the Piedmont Air Line, from Richmond through Greensboro to Atlanta; and a series of railways which, under many names, connect all the Atlantic and river ports from Savannah to Norfolk, and may be traced northwardly through all the great ports to Portland.
- 2. In the second group are lines extending westward from Charleston, Savannah, and other southern Atlantic ports, and crossing the Mississippi at New Orleans, Vicksburg, and Memphis.
- 3. The third group includes lines extending north and south from Louisville to Mobile, Memphis, and New Orleans; from St. Louis and Columbus, Ky., to New Orleans and Mobile; and from Evansville, through Nashville and Montgomery to Mobile, and through Chattanooga and Atlanta to the southern Atlantic ports.

The chief business of these lines is the exchange of the cotton and other products of the South for the manufactures and imports of the Northern and Central Atlantic States, and the breadstuffs, provisions, and manufactures of the country north of the Ohio and the Missouri.

V.—Western Trunk Lines.—These include all the roads west of the Mississippi. A single line extends from San Francisco to Omaha (1914 m.), and thence by the *Chicago*, *Rock Island*, *and Pacific*, and other roads, to Chicago (493 m.). A branch, the *Kansas Pacific*, from Cheyenne, passes through Denver to Kansas City, and thence by the *Missouri Pacific* and the *St. Louis*, *Kansas City*, *and Northern* to St. Louis (1024 m.).

The roads of Texas and Colorado are important as cattle roads or as cotton roads. California and Oregon also have important lines.

Note.—Five other Pacific railroads have been proposed—one through Canada from Ottawa to New Westminster; another, the Northern Pacific, from Duluth on Lake Superior, has been completed as far as Bismarck on the Upper Missouri (448 miles); a third, the Atlantic and Pacific, has been completed from St. Louis to Vinita; a fourth, the South Pacific, from Vicksburg, has advanced a few miles; a fifth, the International, has been completed from St. Louis through Little Rock to Austin in Texas—it is proposed to extend it first to the Rio Grande, and thence to some Mexican port on the Pacific coast.

WATER-WAYS. VI.—The interior water-ways of the United States are the Atlantic System, the Mississippi System, the St. Lawrence and the Great Lakes, and the Canals.

1. Atlantic System.—The rivers of the Atlantic system are connected with the extensive coasting trade. They are navigated by thousands of sailing vessels and steamers. A fall or a rapid at the head of navigation is usually the seat of a manufacturing city or town.

Note.—The tides of the ocean cause the surface of the rivers of the Atlantic system to rise and fall a few feet twice a day. The entrances of these rivers are more or less obstructed by broad banks or shoals of mud and sand, brought down by the rivers and deposited in the sea just at their mouths. The shoals are called bars. They frequently make it dangerous and sometimes impossible for vessels to enter even at high tide. Most of the rivers between the Chesapeake Bay and the Rio Grande can be entered only by vessels of very light draught. In 1874 the water was about fifteen feet deep on the bar of the Mississippi.

2. Mississippi System.—The Mississippi River is said to have more than 1500 navigable branches. Numerous steamboats and barges furnish cheap transportation for the bulky products of the valley. The importance of this system is very great, and rapidly increasing. The water at the mouth of the Mississippi has recently been deepened, so as to admit the largest ocean steamers.

NOTE.—The Mississippi system furnishes more than 20,000 miles of steam navigation. The waters of the great river and its branches are subject to great changes of level, in consequence of the annual floods and droughts. Below the mouth of the Ohio the Mississippi sometimes rises more than fifty feet. At low water some of the branches can be navigated only by steamers of light draught, and some not at all for several months.

- 3. The St. Lawrence and the Great Lakes.—The Great Lakes are freshwater seas, and are traversed by a great number of sailing vessels as well as numerous large steamers. Like the northern parts of the Atlantic and Mississippi systems, the St. Lawrence and the Lakes are closed for several months by ice, but are not affected by tides, floods, or droughts.
- 4. Canals.—The Great Lakes are connected with the Mississippi and Atlantic systems by canals. The Erie Canal in New York is the only one of any present importance. A short ship-canal in Michigan enables vessels to pass the falls at the entrance of Lake Superior. The Falls of Niagara and the rapids in the St. Lawrence are passed by means of ship-canals in Canada.

NOTE.—A number of important ship-canals have recently been proposed: one to connect the Hudson and Lake Champlain with the St. Lawrence, others to connect the Ohio with the James and the Potomac, the Tennessee with the Alabama and the Altamaha, the Illinois and the Wisconsin with Lake Michigan, and the Minnesota River with the Red River of the North.

Questions. I.—What are trunk lines? How may the trunk lines of the United States be divided? What is said of them?

II.—Where are the principal eastern trunk lines? How many are there? Name them. Why important?—Describe the following roads.\*—1. Grand Trunk?—2. New York Central and Hudson River?—3. New York, Lake Erie, and Western?—4. Pennsylvania? New Jersey?—5. Baltimore and Ohio?

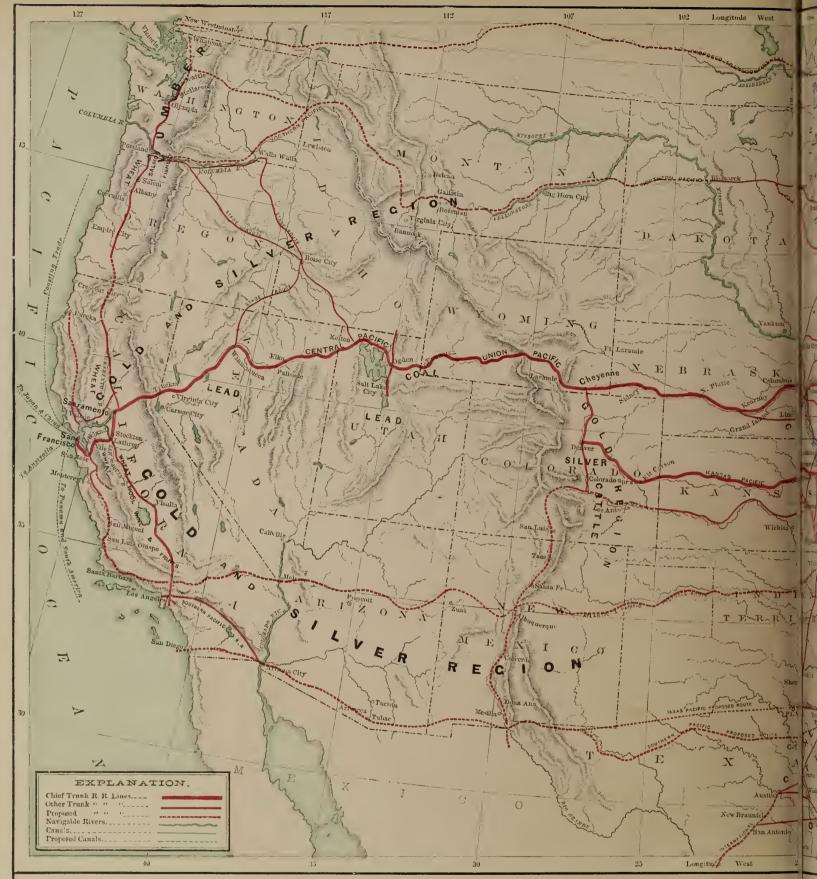
11I.—Where are the central trunk lines? Name the principal ones? Describe them.\*—1. Michigan Central?—2. Lake Shore and Michigan Southern?—3. Toledo, Wabash, and Western?—4. Atlantic and Great Western?—5. Pittsburgh, Fort Wayne, and Chicago?—6. Pittsburgh, Cincinnati, and St. Louis?—7. Marietta and Cincinnati? Ohio and Mississippi?—8. Illinois Central?—9. Chicago and Alton?

IV.—What do the southern trunk lines include?—1. Describe the first group.—2. The second.—3. The third. What is the chief business of these lines?

V.—What do the western trunk lines include? What road connects the commercial system of the Pacific coast with that of the rest of the country? Describe the Pacific Railroad. What is said of the roads of Texas and Colorado? Of California and Oregon?

VI.—How are the interior water-ways of the United States divided?—1. With what trade are the Atlantic rivers connected? By what navigated? Of what is a fall or rapid at the head of navigation usually the seat?—2. What is said of the branches of the Mississippi? By what navigated? What is said of the importance of the system? Of the mouth of the Mississippi?—3. Of the Great Lakes? What effect has winter upon all the northern water-ways?—4. How are the first three systems connected? Which is the most important of these canals? Where are the ship-canals?

<sup>\*</sup> Ask the following questions about each of these roads: In what state or states? Between and through what cities? With what other trunk lines connected?



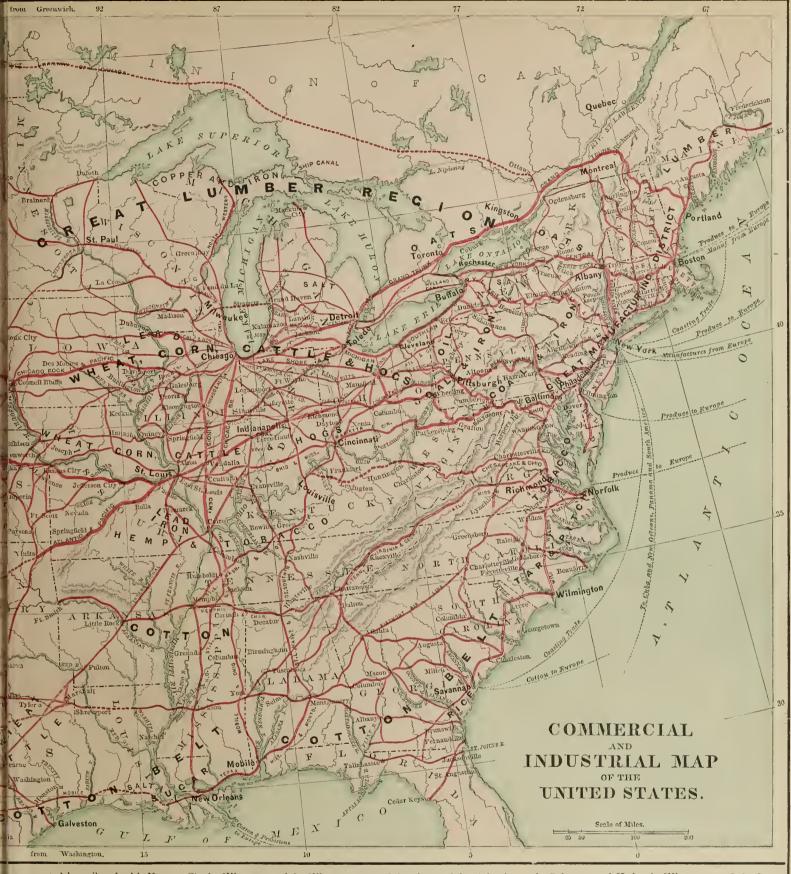
## QUESTIONS ON THE MAP.

What great railroad terminates at Portland? Through what country does it pass? What lakeport of Michigan is at its western end? What railroad in the central part of the state of New Vork? Between what two cities is it? Which of these is a lake-port? What road connects Albany with Boston? With New Vork? What road in the southern part of New Vork? What sea-port at its eastern end? What lake-port at its western end? What road between Philadelphia and Pittsburgh? Baltimore and Wheeling? What is the general direction of these five great roads?

What lake-port is the chief railroad centre of Illinois? What road connects Chicago with Detroit? Of what great eastern road is the Michigan Central an extension? What road connects Chicago with Buffalo? Through what other lake-ports does the Lake Shore and Michigan Southern pass? With what two great railways does it connect in New York? What road from Chicago to Pittsburgh passes through Fort Wayne? Of what Pennsylvania road is it a continuation? What road from Chicago passes through Wheeling to Baltimore? What road from Pittsburgh runs through Columbus and Indianapolis to St. Louis? To what other port on the Ohio has it a branch from Columbus? What road from Toledo passes through

Springfield, Illinois? To what two cities on the Mississippi? What road runs north from Cairo? Where does it fork? In what city does the eastern branch terminate? The western branch? What road connects St. Louis with Chicago? With Indianapolis and Pittsburgh? With Cincinnati?

What road connects Chicago with Omaha? With what western road does it connect? What road continues the Union Pacific still farther west? What sca-port at the western end of the Central Pacific? What road extends east from Denver? At what city does a branch from Denver join the Union Pacific? What city on the Missonri at the eastern end of the Kansas Pacific? What large city on the Mississippi



s connected by railroad with Kansas City? What oad runs southwest from St. Louis? To what gulf-ort does it form part of a line? What other road orms part of a line from St. Louis and Cairo to Galcston? Through what states does the International oad run? At what city does it terminate?

What road runs south from Richmond? To what port? Between Richmond and Atlanta? Norfolk and Chattanooga? Louisville and Memphis? Louisville and Mobile? Cairo and New Orleans? Mobile and Cairo? Memphis and Charleston?

What color on this map shows how far a river is avigable? In which half of the United States are early all the navigable rivers? Nearly all the rail-

roads? Why can most of the rivers of the Atlantic coast be ascended only a short distance? In what part of the United States are the longest navigable rivers? Name the chief navigable rivers of the North Atlantic States. Of the Middle Atlantic. The South Atlantic. The South Central. The North Central. The West Central. What rivers of the western half of the United States are partly navigable? Which is the most important navigable river of Canada?

What three states contain nearly all the canals? (New York, Pennsylvania, and Ohio.) Which is the principal canal? (The Erie.) What waters does it connect? What other canals are connected with the Hudson River? (The Champlain and Hudson and

the Delaware and Hudson.) What port on Lake Ontario is at the mouth of a branch of the Erie Canal? On Lake Erie at the mouth of the Erie Canal? At the mouth of a canal from Pittsburgh? From Portsmouth, Ohio? From Cincinnati? From Evansville? How many canals connect the Ohio River with Lake Erie? What river of Illinois is connected by canal with Lake Michigan? At what port?

Note.—It is proposed to unite the following waters by ship-canals: A. (see map) Lake Champlain and the St. Lawrence.

B. Ottawa River and Georgian Bay. C. Lake Ontario and Georgian Bay. D. James River and the Kanawha. E. The Tennessee River and the Ocmulgee. F. The Tennessee and the Alabama. G. The Wisconsin and the Fox. H. The Minnesota and the Red River of the North.

## LXVII.

## QUESTIONS ON THE MAP.

General.—What province of the Dominion of Canada is a peninsula? What one north of Nova Scotia is an island? What one is west of Prince Edward Island? Northwest of New Brunswick? West of Quebec? What district west of Ontario? What province southwest of Kewaydin? On the Pacific? What territories east of British Columbia? What is the capital of the Dominion? (Ottawa.) Where situated? What large island east of the Dominion? (Newfoundland.)

Nova Scotia. — What island in the eastern part of Nova Scotia? What four capes on the coast? What bay west? What city is the capital? What town on Northumberland Strait?

Prince Edward Island.—What waters surround Prince Edward Island? What town is the capital?

New Brunswick.—What three boundary rivers has New Brunswick? Which is the principal river? What cities on it? What bay on the north? On the south? What city is the capital?

Quebec.—In the valley of what river does the Province of Quebec lie? What river separates Quebec from Ontario? What branch of the St. Lawrence is the outlet of Lake Champlain? Name the two chief cities on the St. Lawrence. Which is the capital?

Ontario.—What lakes border on the Province of Ontario? In what part is the peninsula? What bay north of the peninsula? What lake in the peninsula? What cities on or near Lake Ontario? Which is the capital? What city southwest of Hamilton?

Manitoba.—What river crosses Manitoba from the south? What is the capital of this province?

British Columbia.—What mountains form part of the eastern boundary of British Columbia? What river between British Columbia and Alaska? What is the capital? Which is the principal river? What islands on the coast? What waters surround Vancouver Island? What town on Frazer River?

Northwest Territory.—What river flows into Winnipeg Lake from the west? What is the capital of the Northwest Territory?

Kewaydin.--What large lakes are mainly in this district?

Newfoundland.—What waters surround Newfoundland? What city is the capital? What capes on the coast? What small islands south?

## LXVIII.

## REVIEW EXERCISES.

Countries.— Where is it? How bounded? What is the capital?

Provinces.		Population in 1871.	Provinces.	Area in Sq. Miles.	Population in 1871.
Nova Scotia Prince Edward New Brunswick Quebec Manitoba	2,100 $27,000$ $193,000$	94,000 286,000 1,192,000	District of Keway- din. Northwest Territo-	2,858,000	1,689,000
British Columbia	390,000	45,000	Newfoundland	40,200	147,000

Cities and Towns.—In what part of the province? How situated?—OTTAWA? HALIFAX? Pictou? FREDERICKTON? St. John? CHARLOTTE TOWN? QUEBEC? Montreal? TORONTO? Hamilton? London? Kingston? WINNIPEG? New Westminster? VICTORIA? ST. JOHNS? BATTLEFORD?

Islands.—Where situated?—Newfoundland? St. Pierre? Miquelon? Prince Edward? Cape Breton? Vancouver? Queen Charlotte?

Capes. — From what coast does it project? — Race? Bauld? Ray? North? Canso? Sable? Breton?

Gulfs and Bays.—Where is it?—St. Lawrence? Fundy? Chaleur? Georgian? Georgia?

Straits.—Between what lands? What waters does it connect?—Belle Isle? Northumberland? Juan de Fuca? Queen Charlotte Sound?

Rivers.—Where does it rise? In what direction does it flow? Into what body of water?—St. John? St. Lawrence? Richelieu? Ottawa? Saskatchawan? Frazer? St. Croix? Restigouche? Simpson? Red River of the North?

Lakes.—Where situated? What outlet?—Winnipegoos? Winnipeg? Manitoba? Simcoe?

## BRITISH AMERICA.

## LXIX.

## CANADA AND NEWFOUNDLAND; DESCRIPTION,

1. **Divisions.**—British America comprises about one third of the continent of North America, together with many adjacent islands. Its chief divisions are the Dominion of Canada and the Province of Newfoundland.

Besides these there are the Bermudas, the Bahamas, Jamaica, and many other colonies in the West Indies.

- 2. **The Dominion of Canada** has an area of about three and a half millions of square miles, or nearly the same as that of the United States. Its population is nearly four millions.
  - It is a confederation, consisting of the provinces of Quebec, Ontario, New Brunswick, Nova Scotia Prince Edward Island,

British Columbia, and Manitoba, the District of Kewaydin, and the Northwest Territory. Newfoundland is not included in the confederation.

- 3. **Government.**—The chief executive officer is the Governor-General, who is appointed by the sovereign of Great Britain. The Legislature consists of two branches. The members of the lower branch are elected by the people; the members of the other branch are appointed by the Governor-General. Each province has a similar government under a Lieutenant-Governor.
- 4. Climate.—The winter climate is severe, except in the southern parts of British Columbia and of Ontario.
- 5. **Surface.**—British Columbia and the provinces east of Manitoba are great forest regions. Between the Rocky Mountains and Manitoba are extensive prairies.





ST. LAWRENCE RIVER

6. **Commercial routes.**—The chief commercial water route is the St. Lawrence and the Great Lakes.

The rapids of the St. Lawrence above Montreal, and the falls of the Niagara and St. Marys rivers, are passed by means of canals; the St. Marys Canal is in the United States.

The Grand Trunk Railroad passes from the southern part of Ontario through the chief cities and down the St. Lawrence to Quebec, with a branch to Portland, Maine. In winter the communication of the interior with the ocean is through the United States.

- 7. **Trade.**—The principal trade of the provinces is with Great Britain and the United States. The chief exports are fish, coal, grain, and lumber.
- 8. **Nova Scotia.**—Nova Scotia has many good harbors and valuable fisheries, and exports sheep, coal, and gypsum, or plaster of Paris. Halifax, the capital and largest city, is an important British naval station.
- 9. **Prince Edward Island.**—Prince Edward Island has a fertile soil, and agriculture is the leading occupation. Charlotte Town is the capital.
- 10. **New Brunswick.**—New Brunswick is noted for its timber forests. Its chief exports are lumber and fish. St. John is the principal city. Frederickton is the capital.
- 11. Quebec.—The Province of Quebec is noted for its picturesque scenery and severe climate.

Montreal, the chief city, and, after Chicago and Buffalo, the largest in the St. Lawrence basin, has an extensive commerce, and exports a large amount of grain to Europe. Quebec, the capital, is the second city in population, and has a large maritime commerce.

12. **Ontario.**—Ontario produces a great amount of grain and lumber. Toronto, the capital and largest city, has a fine harbor and a large lake trade.

13. **Manitoba.**— Manitoba has a small population. Winnipeg is the capital and chief town.

The Red River of the North, a navigable stream flowing from the United States, is the best water-way to the province. It is connected through Winnipeg and other large lakes with the Saskatchawan River. Together they furnish more than 2000 miles of inland navigation through one of the most fertile sections of the continent.

14. **British Columbia.**—British Columbia abounds in timber, coal, gold, and other metals. New Westminster is an important town. Victoria is the capital.

British Columbia can be reached only from the other provinces by a journey through San Francisco or by sea around the continent: its chief commercial interests are therefore with the Pacific States.

It is proposed to connect British Columbia with Ontario or with the head of Lake Superior by a Canadian Pacific Railroad.

- 15. **Northwest Territory and Kewaydin.**—Northwest Territory and Kewaydin are a vast hunting-ground. Battleford is the capital of Northwest Territory.
- 16. **Newfoundland.**—Newfoundland is a sterile, rocky island, and has a bold and broken coast. The ocean fisheries are almost the only source of support to the inhabitants. The chief exports are cod-fish, seal-skins, and oils.

The fish are caught near the coasts, and in shallow places in the sea, which are called banks. During a large part of the year the coasts and the banks are covered with dense fogs.

St. Johns is the capital and chief town.

Its population varies from 10,000 during the winter to 25,000 or even 30,000 during the fishing-season.

Labrador, a name properly applied only to the eastern shore of the peninsula, belongs to Newfoundland. Its fisheries find employment for about 1000 small vessels and 30,000 men.

Questions (I.)—1. What does British America comprise? What are its chief divisions?—2. What is the area of the Dominion of Canada? Its population?—3. Describe the government.—4. The climate.—5. The surface.—6. What is the chief commercial water-route?—7. With what countries is the principal trade of the provinces? What are the chief exports?—8. What is said of Nova Scotia? Halifax?—9. Of Prince Edward Island? What is the capital?—10. For what is New Brunswick noted? What are its chief exports? What is the principal city? The capital?—11. For what is the Province of Quebec noted? Montreal? The City of Quebec?—12. What are the productions of Ontario? For what is Toronto noted?—13. What is the population of Manitoba? What is the capital?—14. In what does British Columbia abound? What important town? What is the capital?—15. What is the capital of Northwest Territory?—16. What is Newfoundland? What is the character of the coast? What is the principal business? The chief exports? The capital?

(II.)—1. What other colonies has British America?—2. What is the Dominion of Canada? Of what does it consist? What large island is not included in the confederation?—6. What is said of the rapids and falls in the rivers of this route? What railroad forms another great commercial route? What is the channel of trade in the winter?—13. What is said of the Red River of the North?—14. With what states are the chief commercial interests of British Columbia? What connection with the Great Lakes is proposed?—16. Where are the fishing-grounds of Newfoundland? What is said of the fogs? Of the population of St. Johns? To what province does Labrador belong? What is said of its fisheries?

## MEXICO; CENTRAL AMERICA; WEST INDIES.

[For Sections LXX. and LXXI., see page 73.]

## LXXII.

MEXICO: DESCRIPTION.

- 1. Area and Population.—The area of Mexico is about one eighth less than that of all the United States east of the Mississippi. The population is about 9,000,000.
- 2. Surface. The great plateau of North America covers most of the country, the highest part being near the Isthmus of Tehuantepec.

The plateau is here crossed by a line of thirteen volcanoes, which are among the loftiest in the world; Popocatepetl and Orizaba are over 17,000 feet in elevation, and their tops are covered with snow.

3. Climate.—Mexico has the greatest possible variety of climate: cold on the high

mountains, temperate on the plateaus, and hot and moist on the coast.

The plateaus north of the Tropic of Cancer are dry and barren, like those of the United States. Those south of the tropic have four months of tropical rains.

4. Inhabitants.—The inhabitants are chiefly in the southern half of the country, and consist of Indians, mixed races, and Spanish creoles.

The creoles are descendants of the early Spanish settlers, and form only a small part of the population.

5. Commerce.—The foreign commerce is limited, and is mostly with England and the United States.

There are but few common roads, only one important railroad, and no navigable rivers. The best harbors are on the coast of the

- 6. Government. Mexico is a federal republic of twenty-seven states, one territory, and one federal district. It was for three centuries the most important colony of Spain.
- 7. Mexico, the capital and chief city, is beautifully situated in a fertile plain, 7500 feet above the sea, and



surrounded by lofty mount-Leon, Guadalaxara, Puebla, and Guanaxuato are large cities on the table-land; Vera Cruz and Acapulco are the principal ports. chief exports are silver, dvewoods, cochineal, and vanilla.

> The mines of Mexico were the chief source of the world's supply of silver for nearly three hundred years.

Questions (I.)—1. What is the area of Mexico?-2. What is the character of the surface?—3. Of the climate?—4. Where are most of the inhabitants? Of what do they consist?-5. What is said of the foreign commerce?-6. Describe the government. Of what country was Mexico once a colony?-7. What is the capital and chief city? How situated? What other important cities? What are the principal ports? What are the chief exports?

(II.)-2. By what is the southern part of the plateau crossed? - 3. What is the climate of the plateaus north of the Tropic of Cancer? South of it?-4. Who are the creoles?-5. What is said of the roads, rivers, and harbors?-7. What is said of the silver-mines?

## LXXIII. CENTRAL AMERICA.

Republics.	Area in Sq. Miles.	Population.	Republics.	Area in Sq. Miles.	Population.	
Guatemala	40,800	1,180,000	Nicaragua	58,200	400,000	
San Salvador	7,400	C00,000	Costa Rica	21,500	165,000	
Honduras	47,100	350,000	Balize (Colony)	13,500	26,000	

- 1. Central America, as a natural division, is a long isthmus. It includes the smaller isthmuses of Panama in South America and Tehuantepec in Mexico.
  - It is chiefly important because it contains the principal routes connecting the commerce of the two great oceans.
- 2. As a political division it includes five independent republics, which are really military despotisms: viz., Guatemala, Honduras, San Salvador, Nicaragua, and Costa Rica, together with Balize, or British Honduras, which is a colony of Great Britain.
- 3. These republics are similar to Southern Mexico in surface, climate, productions, population, and social condition.



- The Andes Mountains extend the entire length of the isthmus, and connect the mountains of South America and the Sierra Madre. They abound in volcanoes.
- 4. There are no navigable rivers except the San Juan.
  - This river and Lake Nicaragua, of which it is the outlet, have been proposed as the chief part of a ship-canal between the oceans.
- 5. The foreign commerce is very limited, and is mostly with England. Coffee, rubber, indigo, cochineal, cabinetwoods, and dye-woods are the chief exports.
- 6. The capitals of the several republics are Guatemala, San Salvador, Tegucigalpa, Managua, and San José.

Questions (I.)—1. What is Central America? What does it include?—2. What does it include as a political division? Name the republics.—3. In what are they similar to Mexico?—4. What is said of the rivers?—5. Of the foreign commerce? Which are the most important exports?—6. Name the capitals of the five republics.

(II.)—1. Why is Central America important?—3. What are its principal mountains? What is said of them?—4. Why is the San Juan River important?

## LXXIV.

## THE WEST INDIES.

- 1. **Situation.**—The West Indian Archipelago extends from Florida to South America.
  - The islands are the summits of mountain ranges which are partly under the sea, and parallel to the great chains of the western continents.
- 2. **Area.**—The land surface of the archipelago is about equal to that of New York and Pennsylvania.
- 3. **Divisions.** The Bahamas, the Greater Antilles, and the Lesser Antilles are the three principal divisions.

The Bahamas are low coral islands. One of them, San Salvador, is said to be the first land discovered by Columbus in 1492.

The Greater Antilles have forest-clad mountains and a fertile soil.

The Lesser Antilles include all the islands between Porto Rico and South America; several of them contain lofty volcanoes.

- 4. **Climate.**—All these islands except a portion of the Bahamas are in the Torrid Zone. The intense heat of the tropical climate is modified by the ocean and the trade-winds.
- 5. **Productions.** The principal exports are sugar, coffee, cotton, tobacco, and tropical fruits. Most of the fruits come from Cuba, which is also the chief sugar-producing country of the world.
- 6. Ownership.—Cuba and Porto Rico are colonies of Spain; Jamaica, the Bahamas, and most of the Lesser Antilles belong to Great Britain; the rest to France and other European countries. Hayti was once divided between France and Spain; it now consists of two independent negro republics—Hayti and San Domingo.
- 7. **Population.**—The total population of the West Indies is about equal to that of the State of New York, the greater part being negroes.
- 8. The three largest cities, Havana, Matanzas, and Santiago de Cuba, are all in Cuba. Havana, the capital of Cuba, is larger than any six other cities in the West Indies.

Questions (I.)—1. Where is the West Indian Archipelago?—2. What is its area?

—3. Name its principal divisions.—4. In what zone are they? What is said of the climate?—5. What are the principal exports? For what is Cuba noted?—6. To what countries do the West Indies belong? To what two countries did Hayti once belong? Of what does it now consist?—7. What is said of the population of the West Indies?—8. Where are the three largest cities? Name them. What is said of Hayana?

(II.)—1. What are the islands of the West Indian Archipelago?—3. What is said of the Bahamas? Of San Salvador? Of the Greater Antilles? Of the Lesser Antilles?

## LXX.

## QUESTIONS ON THE MAP.

Mexico.—What country north of Mexico? What country southeast? What gulf in the northwest? What peninsula? What gulf east? What bay? What peninsula in the southeast? What isthmus in the southern part of Mexico? What gulf? What mountain chain extends through Mexico? What river forms part of the northeast boundary? What city is the capital? Name the sea-ports of the eastern coast? Of the Pacific coast. What city near the mouth of the Rio Grande? What city southeast of Mexico? What three northwest? What two in the northern part of Mexico?

Central America.—Name the divisions of Central America. Which is farthest south? Farthest north? What British colony northeast of Guatemala? What is the capital? What bay north of Honduras? What name is given to the eastern coast of Nicaragua? What two lakes in Nicaragua? What is the outlet of Lake Nicaragua? Name the capital of each state.

West Indies.—What are the three principal divisions of the West Indies? (Greater Antilles, Lesser Antilles, and the Bahamas.) Name the four Greater Antilles. Which is the largest group of the Lesser Antilles? What group near the coast of South America? What small group east of Porto Rico? What islands north of Cuba? What town is their capital? On what island? What city is the capital of Cuba? What city east of Havana? On the southern coast? What strait between Cuba and Florida? Between Cuba and Yucatan? Cuba and Hayti? What

two countries in Hayti? Name their capitals. What strait separates Hayti from Porto Rico? What is the capital of Porto Rico? What island nearly west of Hayti? Its capital? What other city in Jamaica?

## LXXI.

## REVIEW EXERCISES.

Countries.—Where is it? How bounded? What is the capital?— Mexico? Balize, or British Honduras? Guatemala? Honduras? San Salvador? Nicaragua? Costa Rica? St. Domingo? Hayti?

Islands.—Where situated?—The Greater Antilles? Cuba? Hayti? Porto Rico? Jamaica? The Bahamas? The Lesser Antilles? Virgin Islands? Caribbee Islands? Venezuelan Islands?

Gulfs and Bays.—Where is it?—California? Mexico? Campeachy? Honduras? Tehuantepec?

Straits.—Between what lands? What waters does it connect?—Yucatan? Florida? Windward? Mona?

Cities and Towns.—In what part of the state? How situated?—Mexico? Leon? Guadalaxara? Puebla? Guanaxuato? Vera Cruz? Tampico? Matamoras? Guaymas? Acapulco? Guatemala? San Salvador? Tegucigalpa? Managua? San José? Havana? Santiago de Cuba? Matanzas? Port au Prince? San Domingo? Kingston? Spanish Town? San Juan? Nassau? Balize?





## PHYSICAL SOUTH AMERICA.

## LXXV.

## QUESTIONS ON THE MAP.

Through what part of South America does the Equator pass? In what zone is the greater part of the continent? What tropic crosses it? What cape at its northern extremity? Its eastern extremity? Southern? Western?

Along which coast is the belt of highest mountains and narrow plateaus? What name is given to the broadest part of the plateau of the Andes? What lakes in it? What broad plateau in the eastern part of the continent? What mountain ranges in this plateau? What smaller plateau in the north? What mountains are in the plateau of Guiana? In what part of South America are the volcanoes?

What name is given to the northern part of the Great Central Plain? With what are they covered? What river drains the llanos? What name is given to the central part of the Great Plain? With what are they covered? What river drains the selvas? What island at its mouth? What river east of Joannes Island? What name is given to the southern part of the Great Plain? What river drains a large part of the pampas?

What branch of the Amazon is connected with the Orinoco? What branches drain the plateau of Brazil? What branch of the Para? What river drains the eastern part? What two the southern part? Which of these is the main river? What name is given to the forest region

between the Paraguay and the Madeira? To the plain between the Matto Grosso and the pampas? Where is the rainless coast? How long is it?

What metals are obtained from the Andes? What two valuable minerals from the plateau of Brazil? How many principal diamond districts? What valuable woods are obtained from the forests of the Amazon and its branches? What gum? What vegetable productions from the northern coast? From the eastern coast? What grain from the southwestern coast? What animal products from the pampas and Southern Brazil? What valuable manure from the rainless coast? From what islands is it obtained?

NOTE.—It will assist to memorize the physical maps of both the American continents to note the following points of similarity:

Shape of continents, Position of the three coast lines. Volcanoes on the west.

Rocky and Nevada Mountains. Appalachian Mountains. Western Plateau Belt.

Andes chains. Brazilian Mountains. Andes Plateau Belt.

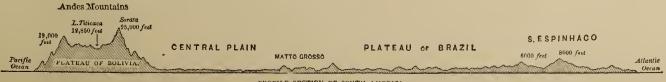
Great Basin. Great Salt Lake. Labrador. Plateau of Bolivia. Lake Titicaca. Plateau of Guiana.

Eastern Highland. Central Plain. Arctic Plain. Great Lakes. Southern Plain. Plateau of Brazil. Central Plain. Llanos.\* Selvas.† Pampas.‡

Mackenzie River. Nelson. St. Lawrence. Mississippi.

Magdalena. Orinoco. Amazon. La Plata.

<sup>\*</sup> Llanos, a Spanish word meaning plains. † Selvas, from a Latin word meaning woods. ‡ Pampas, an Indian word meaning plains. El Gran Chaco, means the great hunting-ground.



## DESCRIPTION.

## LXXVI.

## OUTLINE, SURFACE, ETC.

1. **Outline.**—South America is nearly a right-angled triangle, of which the Pacific coast is the longest side. It is nearly twice the size of the United States, and has a population of about 27,000,000.

Its coasts are unbroken by great gulfs or by enclosed seas.

2. Surface.—The surface of South America is naturally divided into four parts—the Andean plateau on the west, the plateaus of Brazil and Guiana on the east, and the Great Central Plain. The Andes Mountains stretch along the entire western coast, generally in parallel chains. Between them is a belt of plateaus, the broadest and loftiest being that of Bolivia.

These gigantic border walls of the plateaus are the loftiest ranges in America, and are only exceeded in height by the great chains of Central Asia. They are highest in the northern portion of the table-land of Bolivia, where the loftiest peaks reach an elevation of 25,000 feet. They are unbroken, except at the Isthmus of Panama, where the western chain subsides into low hills, and towards the southern extremity of the continent, where the mountainous coast becomes a line of rocky islands. The Andes contain several groups of lofty volcanoes.

3. The Great Central Plain extends along the whole eastern base of the Andes.

This plain extends eastwardly to the shores of the Atlantic, except where interrupted by the low mountains and plateaus of Guiana and Brazil.

Three great rivers, the Orinoco, the Amazon, and the La Plata, with their numerous branches, drain this plain and the mountain slopes which surround it.

The remarkable rain-fall of this region is due to the tropical rainbelt and the trade-winds which sweep westwardly from the Atlantic and across the continent.

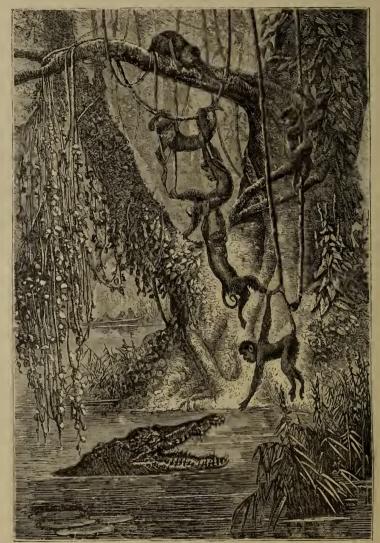
4. The northern part of the Great Central Plain, the llanos of the Orinoco, is treeless and very flat. It is about four times the size of Ohio.

At the close of the tropical rainy season it is a vast meadow, and is called by the inhabitants the "Sea of Grass."

It supports millions of cattle and horses. Before the end of the dry season it has become a scorched and arid desert, swept by hot winds that whirl the dry soil into the air in dense clouds of dust. During the extreme drought the horses and cattle are driven to the foot of the mountains, and the great reptiles with which the plain abounds bury themselves in the mud of the drying pools, and await in a torpid state the return of the tropical rains.

5. The central part, the selvas of the Amazon, is by far the largest.

It is nearly covered with a dense forest of flowering trees, interwoven with gigantic vines, and alive with birds and insects of brilliant colors, and with millions of monkeys and other animals of the Torrid Zone; it is almost unoccupied by civilized man, and can be traversed only by the rivers. This great forest, the largest in the world, also spreads far up the sides of the mountains by which the plains are surrounded.



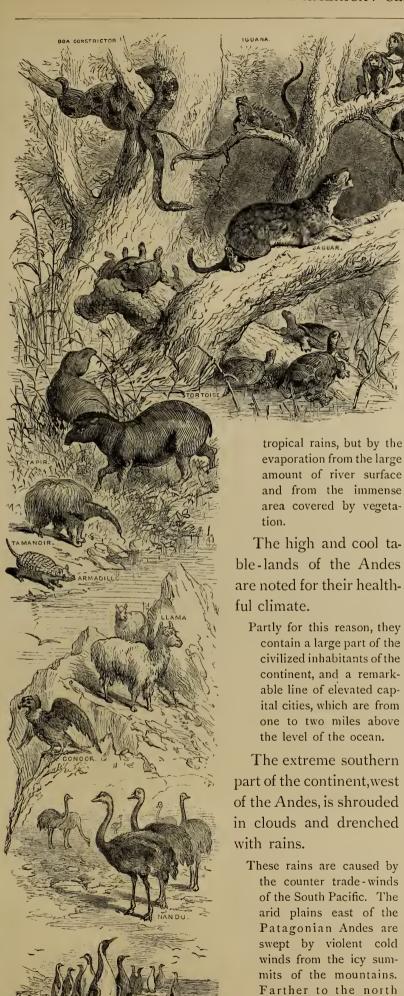
MONKEYS AND CROCODILE

6. The southern part, the pampas of the La Plata, is more than three times as large as the llanos.

It is similar to the llanos in many respects, but is far colder towards the south. It supports vast herds of cattle and millions of sheep and horses. These animals constitute the chief wealth of the inhabitants of the llanos and the pampas, and determine their principal occupations and exports.

7. **Climate.**—The greater part of South America lies within the tropics, where its broad plains have a hot and moist, and therefore sickly climate.

The great moisture is caused not only by the trade-winds and



these plains are warmer,

but their streams dry up

or end in salt lakes instead of reaching the ocean.

About one half of the western coast is a dry desert.

The trade-winds from the east, in crossing the Andes south of the Equator, become extremely dry, and, passing down to the Pacific, cause a rainless coast nearly two thousand miles long. A large district of the high plateau of Bolivia is called "the Despoblado," or "the Uninhabited," from the dryness and severity of its climate.

- 8. **Vegetation.**—The richness and variety of the tropical vegetation are indescribable. The dense forests of the plains and mountains abound in India-rubber and palm trees, and in rose-wood, mahogany, and dye-woods. Other products, such as coffee, cocoa, indigo, tapioca, cotton, and sugar, are only limited by the amount of labor and cultivation bestowed upon them.
- 9. Animals.—Among the remarkable animals are the llama, a beast of burden, and the alpaca of the Andes; they are something like small camels. Besides these are the puma, the jaguar, and the monkey, the boa, the condor, the nandu, or American ostrich, the penguin, and the humming-bird. Insects are more numerous and brilliant than in any other continent. Horses, cattle, and sheep were introduced from Europe.

Questions (I.)—1. What is the shape of South America? Its area?—2. Into how many parts is its surface divided? What are they? What is said of the Andes Mountains? What is between them?—3. What is said of the Great Central Plain? How is this plain drained?—4. What is the character of the northern part of the Great Central Plain? What is it called? What is the meaning of llanos? What is its area?—5. Which is the largest part? What is the central part called? What is the meaning of selvas?—6. What is the area of the southern part? What is it called? What is the meaning of pampas?—7. What is the climate of the greater part of South America? Of the table-lands of the Andes? Of the southern part of the continent? Of the western coast?—8. What is said of the vegetation? In what do the forests abound? What is said of other products?—9. Which are the most remarkable animals? What is said of the insects? Of the horses, cattle, and sheep?

(II.)—1. What is the character of the coasts of South America?—2. What is said of the Andes Mountains? Where are they highest? How high are the highest peaks? Where are they broken? What do they contain?—3. How far does the Great Central Plain extend towards the east? To what causes is the rain-fall due?—4. What is the condition of the northern part of the plain at the close of the rainy season? What does it support? What is its condition before the end of the dry season? What is done with the horses and cattle during the drought?—5. Describe the central part of the plain? What is the extent of the great forest?—6. To what is the southern part of the plain similar? What does it support? What is said of the animals of the llanos and the pampas?—7. What is the cause of the moist climate of the plains? What do the table-lands of the Andes contain? Why? What is the cause of the rains west of the Patagonian Andes? Of the dryness east of these mountains? What is the condition of these plains farther to the north? What is the cause of the dryness of the coast of Bolivia? What name has been given to a part of the plateau of Bolivia?

## LXXVII.

## QUESTIONS ON THE MAP.

General.—What countries of South America border on the Caribbean Sea? On the Atlantic Ocean? On the Pacific? Through what countries do the Andes extend? What countries are drained by the Orinoco and its branches? By the Amazon? By the La Plata? What countries are crossed by the Equator? By the Tropic of Capricorn?

Brazil.—What countries border on Brazil? Which country of South America does not border on it? What river drains the northern part of Brazil? Which is its chief northern branch? Its chief southern branch? What island just south of the Equator? Between what two rivers? What mountains near the northern boundary? What mountain chains near the eastern coast? What river breaks through the Serro Espinhaco Mountains? What branches of the La Plata rise in Brazil? What city is the capital? What cape is near it? What city south of Cape St. Roque? On the Para? Between Para and Pernambuco? Between Pernambuco and Rio Janeiro? On what bay?

Guiana.—How many divisions in Guiana? To whom do they belong? What is the capital of each?

Venezuela.—What countries border on Venezuela? What sea on the north? What lake and what gulf in Venezuela? What large river? What island near the mouth of the river? What city is the capital? What town is its port? What other port on the coast? What town on the Orinoco?

Colombia.—What countries border on Colombia? What cape at its northern extremity? What waters? Which is its chief river? What city near its mouth? What city is the capital? What city in the southwest? What isthmus in Colombia? What two ports on it? By what railroad are they connected? (See small map?)

**Ecuador.**—What countries border on Ecuador? What gulf on its shores? What volcanoes are in Ecuador? What city is the capital? How situated? What city is its port?

Peru.—What countries border on Peru? What lake partly in it? What cape in the northwest? What islands near Cape Blanco? What city is the capital? What city is the port of Lima? What city northeast of Lima? What city in the southwest? What city north of Arequipa?

Bolivia.—What countries border on Bolivia? What desert west of the Andes? In what other countries is the Desert of Atacama? What mountain near Lake Titicaca? What city is the capital? What other cities in Bolivia?

Chili.—What countries border on Chili? What large island south of the mainland? What small islands west? For what is one of these islands famous? (For having been the solitary residence of Alexander Selkirk, whose story was afterwards written as Robinson Crusoe.) What city is the capital of Chili? What large city is its port? What port north of Valparaiso?

Argentine Confederation.—What countries border on the Argentine Confederation? What rivers form parts of its boundary? What city is the capital? What city near the centre? North of Cordova? Southeast of Cordova? Near the Andes?

Uruguay.—What countries border on it? What rivers? What city is the capital?

Paraguay.—What countries border on it? What rivers form parts of its boundary? What city is the capital?

Patagonia.—What group of islands south of Patagonia? What group east? What cape south of Tierra del Fuego?

## LXXVIII.

## REVIEW EXERCISES.

Countries .- Where is it? How bounded? What is the capital?

Names.	Area in Sq. Miles.	Population.	Names.	Area in Sq. Miles.	Pepulation.
Brazil	3,253,000	10,000,000	Ecuador	218,900	1,800,000
British Guiana	99,900		Peru		
Dutch Guiana	59,800		Bolivia		
French Guiana	35,100	25,000	Chili	132,600	2,000,000
Venezuela	368,000	1,400,000	Argentine Confed	871,700	2,000,000
United States of			Uruguay	69,800	350,000
Colombia	357,200	3,000,000	Paraguay	63,800	1,000,000

Cities and Towns.—In what part of the country? How situated?—CARACAS? La Guayra? Maracaybo? Angostura? Bogota? Popayan? Cartagena? Panama? Aspinwall? Quito? Guayaquil? LIMA? Callao? Pasco? Cuzco? Arequipa? Sucre? La Paz? Cochabamba? Potosi? Santiago? Valparaiso? Coquimbo? Buenos Ayres? Rosario? Mendoza? Cordova? Tucuman? Montevideo? Asuncion? Rio Janeiro? Bahia? Pernambuco? Maranham? Para? Georgetown? Paramaribo? Cayenne?

Islands.—Where situated?—Trinidad? Joannes? Tierra del Fuego? Falkland? Chiloe? Juan Fernandez?

Capes.—From what coast does it project?—Gallinas? St. Roque? Frio? Horn? Blanco?

Mountains. — Where are they? — Andes? Pacaraima? Serro Espinhaco? Cotopaxi (v.)? Chimborazo (v.)? Sorata?

Seas, Gulfs, and Bays.—Where is it?—Caribbean? Darien? Venezuela? All Saints? Guayaquil? Panama?

Rivers.— Where does it rise? In what direction does it flow? Through what countries? Into what body of water?—Magdalena? Orinoco? Amazon? Negro? Para? Madeira? San Francisco? La Plata? Uruguay? Parana? Paraguay?

Lakes.— Where situated? What outlet?—Maracaybo? Titicaca?

## POLITICAL SOUTH AMERICA.

## LXXIX.

## DESCRIPTION.

1. South America, like the northern continent, was settled and occupied by emigrants from Europe.

Almost all of the civilized people are found in a broad band which surrounds the continent, and crosses its narrow southern part from Santiago to Buenos Ayres. The large cities of the northern and western countries are in the high and cool table-lands; those of the eastern are sea-ports of the Atlantic.

There are millions of Indians, the greater part of whom are half-civilized, the rest of them being savages.

2. South America has had a comparatively limited commerce. It is now rapidly increasing, especially in Brazil, Chili, and the Argentine Confederation.

The tropical climate and frequent civil wars have tended to repress commercial enterprise, and the grandest system of navigable rivers on the globe is as yet but little used. There are no good roads, and only a few railways: most of these are short, and extend from Buenos Ayres, Rio Janeiro, Santiago, and Lima.



The Panama Railroad crosses the isthmus. It is the most important railway in South America, and is chiefly owned by citizens of the United States.

- 3. The countries of South America may be considered under three divisions: 1st, Portuguese South America, or the Empire of Brazil; 2d, the Guianas, or European colonies; and, 3d, Spanish South America, or the Republics.
- 4. Portuguese South America.—The largest and most important country of South America is the Empire of Brazil.
  - It comprises more than two fifths of the continent, and is the only monarchy in the New World. It was once a colony of Portugal, and Portuguese is the language of the civilized inhabitants.
  - The population is mostly on or near the southeastern coast. The people are of three races-whites, Indians, and negroes, a large majority being of mixed races. Nearly all the negroes of South America are in Brazil and the Guianas.

Brazil has about 500 miles of railroad. An ocean telegraph connects Brazil with Portugal, and another with the United States by way of the West Indies.

tant ports are Bahia, the second city of Brazil, Pernambuco, Maranham, and Para.

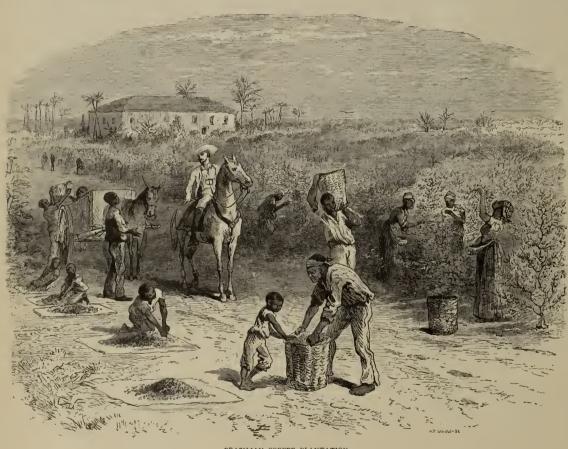
- 5. The Guianas are colonies of Great Britain, France, and Holland. The chief exports are indigo, cocoa, sugar, coffee, and other tropical productions. The ports of Georgetown, Cayenne, and Paramaribo are the capitals and the chief centres of commerce.
- 6. Spanish South America comprises nine independent republics, viz., Venezuela, Colombia, Ecuador, Peru, Bolivia, Chili, Argentine Confederation, Uruguay, and Paraguay. Each republic consists of a number of states under a general government, as in Mexico.

The Andean portion is so rugged that the back of an Indian or of a sure-footed mule is almost the only means of travel and traffic over the rude and dangerous mountain roads. In Peru, Chili, and Colombia, a few railroads have recently been constructed.

These republics were once colonies of Spain. The language spoken by the civilized inhabitants is Spanish.

> In all the republics of Spanish America, from Mexico to Chili, the Spanish creoles are greatly outnumbered by the Indians and mixed races. This fact has an important influence upon the enterprise, commerce, and social and political condition of these countries.

- ports coffee, cocoa, and other tropical products from La Guayra and Maracaybo on the Caribbean Sea, and the cattle products of the llanos from Angostura on the Orinoco. Caracas, the capital and largest city, is 3000 feet above the sea.
- Iombia.—The United States of Colombia is the most important
- 7. Venezuela.—Venezuela ex-
- 8. The United States of Coof the five northern republics.



BRAZILIAN COFFEE PLANTATION

Brazil furnishes the greater part of the coffee used in the world, besides cotton, sugar, hides, dye-woods, Indiarubber, and diamonds; more than half of the coffee, the leading article of export, goes to the United States. The greater part of the entire South American trade of the United States is with Brazil. Rio Janeiro, the capital, sometimes called Rio, is the most important port and the largest city in the Southern Hemisphere. Other imporThis is due to its geographical position. It contains the Isthmus of Panama, which is the most direct route for the rapidly increasing commerce between the countries bordering the two great oceans. A short railroad from Panama to Aspinwall is now the route of this commerce. A great canal for the largest vessels is proposed. Its construction, if ever accomplished, will be due to the energy and enterprise of the great maritime nations. Its opening would constitute one of the most important commercial and political events in the history of the world.

The chief exports are Peruvian bark, from which qui-

nine is extracted, tobacco, and coffee. Bogota, the capital and largest city, is nearly 9000 feet above the sea; Popayan, the second city, is 6000 feet. Cartagena, Savanilla, Panama, and Aspinwall, also called Colon, are the chief ports.

9. **Ecuador.**—The exports of Ecuador are cocoa, coffee, India-rubber, and Peruvian bark. Guayaquil is the chief port. Quito is the capital and largest city.



INDIA - RUBBER TREES

10. **Peru.**—Peru has more miles of railroad than any other state of South America except the Argentine Confederation. Its chief exports are guano and saltpetre.

Guano is obtained from the Lobos Islands and other parts of the rainless coast; saltpetre from the southern part of the same region.

Lima, the capital, is the largest city in South America west of the Andes. Its sea-port is Callao.

Pasco, 13,000 feet above the sea, the most elevated city in the world, is surrounded with silver-mines. Cuzco and Arequipa are large cities. Lake Titicaca, on the borders of Bolivia, 13,000 feet above the sea, is the highest large mountain lake in the world.

- 11. **Bolivia.**—Bolivia has but little commerce. It exports Peruvian bark, saltpetre, and silver-ore. The large cities La Paz, Potosi, Cochabamba, and Sucre, the capital, are all on the plateau.
- 12. **Chili.**—Chili is the most enterprising country of South America, and has a large proportion of European

inhabitants. The chief exports are copper-ore, silver, and wheat.

Santiago, the capital, is the largest city. Valparaiso, the second city, is the largest sea-port on the Pacific coast of America, excepting San Francisco.

13. **The Argentine Confederation.**—The Argentine Confederation stands next to Chili in enterprise.

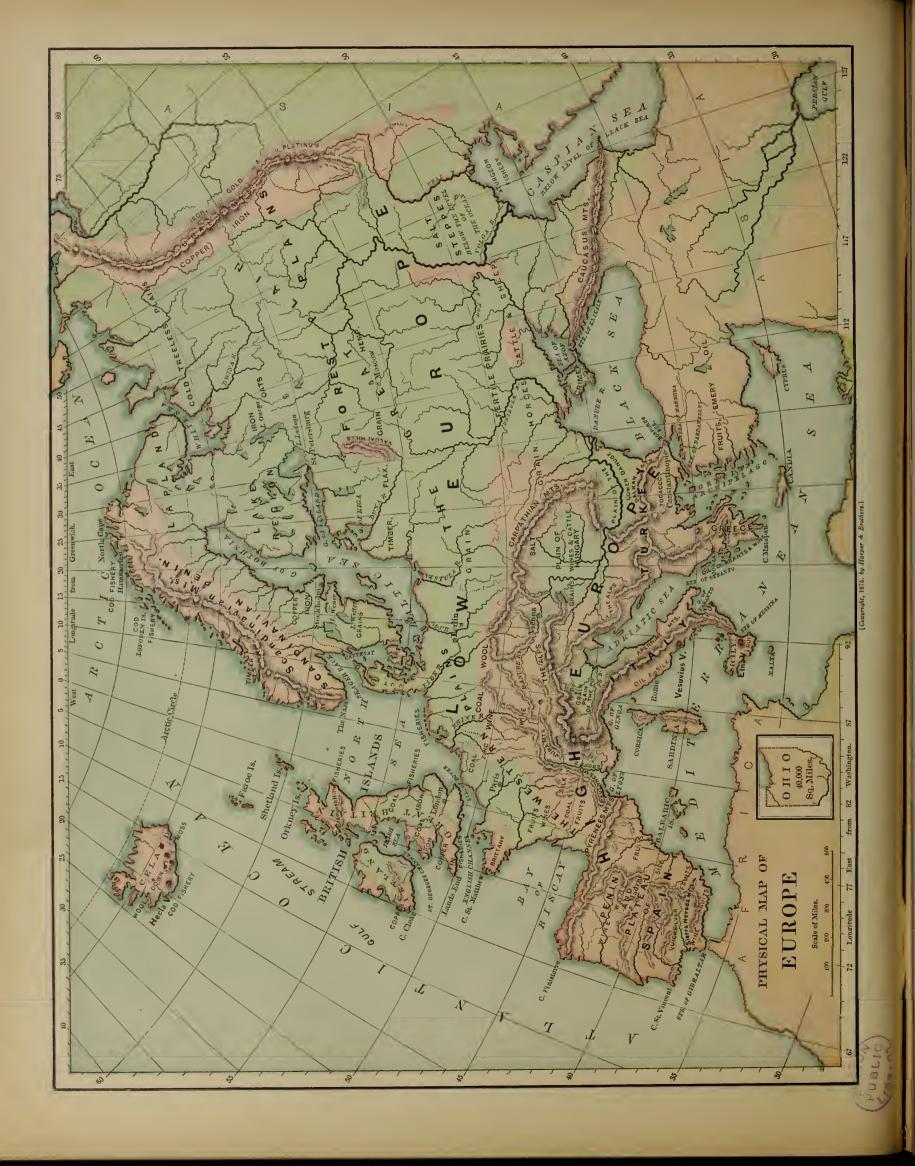
Emigration from Southern Europe, and commerce, are increasing. Education is advancing more rapidly than in any other country in South America. The chief exports are hides and wool. Two thirds of the hides are sent to the United States. The capital, Buenos Ayres, is the second city in South America. Other important cities, Rosario, Mendoza, Cordova, Tucuman, and Corrientes, are on the great trade-routes to Chili, Bolivia, and Paraguay.

- 14. **Uruguay**.—Uruguay is similar in its leading exports to the Argentine Confederation. Montevideo, the capital, has a large trade in cattle products.
- 15. **Paraguay.**—Paraguay, the smallest and weakest of the nine republics, is the only South American country having no sea-coast. Asuncion is the capital.

Patagonia and Tierra del Fuego form the southern part of South America. The inhabitants are savage tribes. Eastern Patagonia is claimed by Chili and by the Argentine Confederation.

Questions (I.)—1. By whom was South America settled?—2. What is said of its commerce? Of the Panama Railroad?-3. How may the countries of South America be considered? What are the divisions?-4. Which is the largest? What are the principal productions of Brazil? What is the extent of its trade with the United States? What city is the capital? For what is it noted? What other important ports?-5. To what countries do the Guianas belong? What are the chief exports? What cities are the capitals and centres of commerce ?-- 6. What does Spanish South America comprise? Name them. Of what does each republic consist? What is said of the inhabitants of the republics of Spanish America? Why is this an important fact?—7. What are the exports of Venezuela? What city is the capital? What is said of it?-8. Of the United States of Colombia? What are the chief exports? What city is the capital? What is said of it? Of Popayan? What are the chief ports?—9. What are the exports of Ecuador? The chief port? What is the capital?— 10. What is said of the railroads of Peru? What are the chief exports? What city is the capital? What is said of it? What is its sea-port?-11. What is said of the commerce of Bolivia? What are the exports? Which are the large cities? Where are they?-12. For what is Chili noted? What are the chief exports? What is the capital and largest city? For what is Valparaiso noted?-13. What is said of the Argentine Confederation? Of emigration and commerce? Of education? What are the chief exports? Where are most of the hides sent? What city is the capital? What is said of it? Which are the other important cities? Where are they?—
14. What are the exports of Uruguay? What is the capital? What is said of it?— 15. Of Paraguay? What is the capital?

(II.)—1. In what part of South America are most of the civilized inhabitants? Where are the large cities? What is said of the Indians?—2. Why has South America so little commerce? What is said of the roads?—4. What is said of Brazil? Where is most of the population? Of what does it consist? Where are most of the negroes? What is said of the railroads of Brazil? Of the telegraphs?—6. What is said of the Andean portion of the Spanish Republics? Of what country were these republics once colonies? What language is spoken?—8. Why is Colombia the most important of the five northern republics? What commercial route does it contain? What is the present route of this commerce? What other route has been proposed? What is said of it?—10. Where is guano obtained? Saltpetre? For what is Pasco noted? Cuzco and Arequipa? Lake Titicaca?—15. What country and group of islands form the southern part of South America? Who are the inhabitants? By what republics is Eastern Patagonia claimed?



## CXXX.

What mountains form the eastern border of the Great Plain of Europe? The southeastern border? The southwestern?

The northwestern? In what peninsula are the Scandina-

# OUESTIONS ON THE MAP.

From what other continent does Europe project? In what a direction? What continent south of Europe? What sea separates them? What strait at its entrance? What ocean west of Europe? What ocean north? What is the southwestern part of Europe called? Nearly all the rest of the continent? In what zone is the greater part of Europe?

High Europe.—What three peninsulas project from High Europe? What is the peninsula of Spain sometimes called? (The Derian Peninsula.) What plateau in the Iberian Peninsula? In what part of High Europe is it? What peninsula nearest to Asia? What one between Spain and Turkey? What mountains in the northern part of the peninsula of Spain? What mountains in Turkey? What mountains in southern Spain? In the Italian peninsula? On the northeastern border of High Europe? What smaller peninsula in the southwestern part of the peninsula of Turkey? What archipelago between Greece and southeastern Turkey? What sea between Turkey and Italy?

What small sea between Asia and the Turkish peninsula?

Low Europe. — What plain constitutes the greater part of Low Europe? What part of the Great Plain is cold and treeless? What part is covered with forests? Where are the prairie regions? The salt steppes? Where is the lake region?

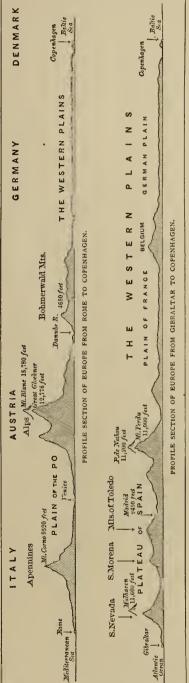
vian Mountains? What hills near the centre of the Great Plain? What sea borders the Great Plain in the gap between the Ural and Caucasus Mountains? Between the Caucasus and the Carpathian? Between the British Islands and the Scandinavian Mountains? What sea between the North and the White seas lies entirely within the Great Plain? What is the name of the northern arm of the Baltic Sea? Of the eastern arm? What two lakes are connected with this arm? What straits connect the Baltic and North seas? What peninsula between them? What river flows into the White Sea? What two rivers into the Caspian Sea? What two into the Black Sea? What tean orth of the Black Sea? What peninsula between them? What river flows into the Sea of Azof? Into the Gulf of Riga? What two rivers flow into the Baltic Sea?

What name is given to the western continuation of the Great Plain? At what mountains do these plains terminate on the southwest? In what island on the west? Through what two plains does the Danube flow? Which of these is not a part of the Great Plain? What other small plain between the Alps and the Apennines?

What three large islands west of Europe? What waters between Great Britain and the continent? Between Great North of the peninsula of Spain? What three groups of islands between Great Britain and Iceland? What cape is the most northern point of Europe? The most western? The most southern? What islands southwest of North Cape? What island near the south What large islands in the western basin? What two gulfs in the northern part? What river flows into the Gulf of Lyons? Which are the two principal islands of the eastern basin? What small island south of Scily? What strait between Sicily and Italy? At the entrance to the Adriatic Sea? Between the Grecian Archipelago and the Sea of Marmora? Between the Sea of Marmora and the Black point of Italy divides the Mediterranean into two basins? Sea? What volcano in Sicily? In Italy? In Iceland? Britain and Ireland?

What metals and minerals are produced in the British Islands? In the Scandinavian peninsula? In the Ural Mountains? Near the Carpathian Mountains? In southern Spain? West of the Rhine? What are the products of the southern part of the Great Plain? Of the central part? Of the northern part? Of southern Scandinavia? Near the Vistula? Of the plain of Hungary? Of Turkey? Of Greece? Of Sicily? Of western Italy? Of the plain of the Po? On the Rhone and the Bay the Rhone and the Bay the Rhone and the Bay the Rhone and the Bay

the Rhine? Between the Rhone and the Bay of Biscay? Of the Spanish peninsula? Of Iceland? What industry near the shores of the North Sea and the British Channel? What fishery near Iceland? On the northern shores of Scandinavia? In the Caspian Sea and the Volga River?



# PHYSICAL EUROPE.

LXXXI. DESCRIPTION,

west.

1. Outline.—The Continent of Europe is a very large peninsula, and is made up of a group of peninsulas. It projects from Asia, and lies between the Mediterranean Sea and the Arctic Ocean. Its western half is divided into two

great peninsulas—the Scandinavian in the northwest, and Western Europe in the south-

2. Western Europe is the larger and more important.

It is itself bordered by smaller peninsulas and islands, and broken by inland seas. Jutland and Brittany are on the north; opposite these are Turkey, Greece,

and Italy; the Spanish or Iberian Peninsula forms the southwestern extremity. The peninsular character of Europe opens a very large part of the continent to the waters of the ocean, and gives uncqualled facilities for maritime commerce.

3. **Islands.**—In the Mediterranean Sea are the large islands Candia, Sicily, Sardinia, and Corsica; in the Atlantic Ocean are Great Britain, Ireland, and Iceland.

4. **Surface.**—Eastern Europe is a plain, and includes the greater part of Low Europe.

This plain extends from the Arctic Ocean to the Black and Caspian seas, where it unites with the Great Northern Plain of Asia. It is also continued into Great Britain and to the Bay of Biscay in the west, and to the Balkan Mountains in the south.

5. Four important mountain systems partly enclose this great plain—the Scandinavian, the Ural, the Caucasus, and the Carpathian. Four inland seas—viz., the White, the Caspian, the Black, and the North—break into the borders of the plain between the ends of these mountains. Besides these is the Baltic, which is entirely within the plain. These five seas receive large and sluggish rivers, the most important of which diverge from a small central district which contains the Valdai Hills.

Among these rivers are the Dwina, the Ural, the Volga, the Don, the Dnieper, the Elbe, the Vistula, and the Duna.

The northwestern part of the plain contains many lakes; among these are Ladoga and Onega, the largest lakes in Europe.

- 6. These rivers and lakes, and the canals by which they are connected, are the commercial routes of Eastern Europe. The Volga is the chief line of the domestic and the Asiatic trade of the seventy millions of people that inhabit the eastern plain.
- 7. Western Europe includes High Europe, which is a network of mountain chains with enclosed valleys and plains. The only large plateau is in Spain.



ALPINE VALLEY AND GLACIER.

8. The Alps, the loftiest mountains in Europe, the Balkan, and the Pyrenees are the principal systems.

Many of the summits of the Alps are covered with perpetual snow, and the valleys between are filled with glaciers.

9. Four navigable rivers—the Po, the Rhone, the Rhine, and the Danube—flow from the heart of High Europe,

and pass through the plains to four seas. The Po is the chief interior water-way of Italy, and the Rhone of France. The Rhine and the Danube are the chief commercial rivers of Western Europe, the latter being the more important.

10. **Climate.**—Western Europe, especially near the Atlantic Ocean, has a milder climate than other parts of the world in the same latitude.

"Ever-green Ireland" is in the same latitude as cold and barren Labrador; St. Petersburg and Stockholm are on the parallel of Cape Farewell; and the never-frozen port of Hammerfest is as far north as the ice-covered regions of the Arctic Archipelago.

The principal cause of this remarkable climate is the warm southwest or return trade-winds, which bring with them a part of the heat they have acquired in the Torrid Zone. The warm waters of the Gulf Stream are also supposed to reach these coasts and to assist in modifying their climate.

The winter climate of the interior parts of Western Europe also presents remarkable peculiarities. It becomes more severe towards the south; this is in consequence of the great elevation. Some cities in High Europe have much colder winters than other places far north of them near the shores of the ocean.

A similar change takes place towards the east with increasing distance from the ocean. The average number of days during which the Rhine is frozen over during the year is twenty-six; the Weser, which is east of the Rhine, is frozen for thirty days; the Elbe, still further east, for sixty-two; the Oder for seventy; and the Vistula for about eighty days.

11. The climate of the Mediterranean countries is almost tropical.

This is the effect of the general southward slope of the country, the warm winds from the Sahara, the mild waters of the Mediterranean, and the high mountain walls that shut out the cold polar winds. Figs, oranges, sugar-cane, and rice grow in the latitude of New York and Boston. The Spanish plateau has a cold winter and a hot and dry summer.

12. The Great Plain has a varied climate. The winters are intensely cold; in the south the summers are hot.

This winter climate is caused by distance from the warm western ocean, and by the prevalence of the polar winds, that sweep unchecked to the Black Sea and the Caspian.

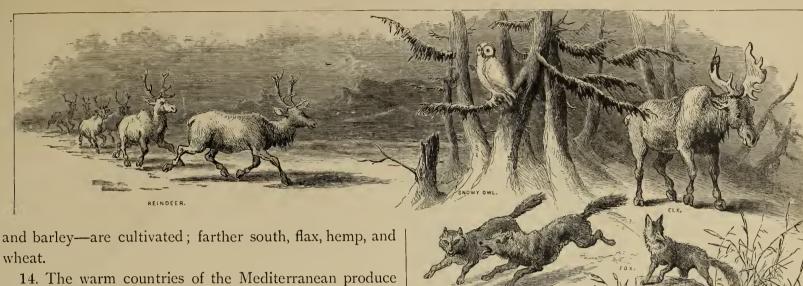
13. **Vegetation and Animals.**—The Great Plain has three belts of vegetable and animal life.

The arctic regions are mossy, treeless swamps, inhabited by reindeer and other arctic animals.

Most of these animals seek the forest regions during the long winters. The rivers are frozen nine months in the year. There are few human inhabitants.

Another wide treeless region stretches across the southern part of the plain. Barren salt plains, called steppes, occupy its eastern portion. In the west are broad prairies, which sustain large numbers of sheep, horses, and cattle, and produce maize and great quantities of wheat.

A vast forest occupies a great part of the middle belt. In its colder regions the hardy grains—rye, oats,



the olive, the almond, the orange, besides rice and other

Grains, fruits, and vines are cultivated in the lowlands of the Atlantic coasts and the valleys of High Europe.

grains.

As we ascend the mountains of High Europe the chestnut gives place to the oak, then follow pine forests and high pastures, then glaciers and perpetual snow.

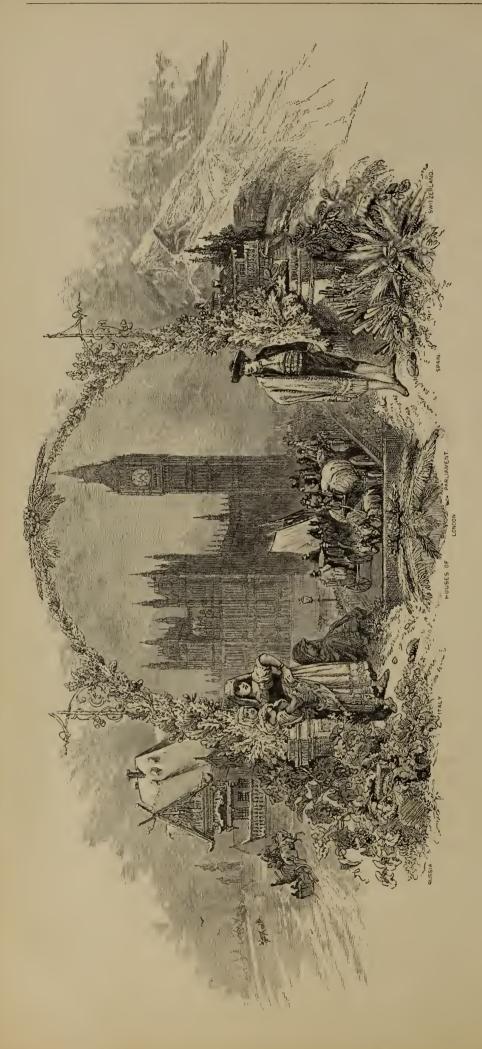
- 15. The northwestern coasts of Europe have extensive and valuable fisheries.
- 16. Minerals.—The mountains of Europe furnish an abundance of the most useful minerals; among these are coal, iron, lead, tin, zinc, and copper.

Questions (I.)—1. What is Europe as a physical division? Of what is it made up? From what does it project? Between what waters? How is its western half divided? What one in the northwest? What one in the southwest?—2. Which is the larger and more important of these peninsulas?-3. What large islands in the Mediterranean Sea? In the Atlantic Ocean?-4. What is the character of Eastern Europe? What does it include?—5. How many and what mountain systems partly enclose the plain? How many and what seas break its borders? Between what are they situated? What sea lies entirely in the plain? What do these seas receive from the plain? Where is the lake region? Which are the two largest lakes?—6. What use is made of these rivers and lakes? What river forms the principal commercial route of Eastern Europe ?- 7. What does Western Europe include? Of what does High Europe consist? Which is the only large plateau?—8. Name the chief mountain systems of High Europe. Which are the highest mountains in Europe ?-9. What four rivers flow from High Europe? To what? Through what? Of what countries are they the chief water-routes? Which are the chief commercial rivers of Western Europe? Which is the more important?—10. What is the character of the climate of Western Europe ?-11. What is the general climate of the Mediterranean countries ?-12. What is the climate of the Great Plain?-13. How many belts of vegetable and animal life in the Great Plain? Describe the arctic belt. By what animals inhabited? Describe the southern belt. Where are the salt steppes? The prairies? What do they sustain? What are the vegetable products? Describe the middle belt. What are its products? -14. What are the vegetable products of the Mediterranean region? Of the Atlantic coasts?-15. Where are the great European fisheries? - 16. What are the principal minerals of

(II.)-2. By what is Western Europe bordered? By what are its shores broken? What two peninsulas on the northern border? peninsulas opposite them? What peninsula forms the southwestern extremity of Europe? Of what advantage is the peninsular character of Europe?-4. What is the northern limit of the Great Plain? The southern limit? With what other plain is it connected? What western extension has it? What southern extension? -5. Name some of the rivers of Eastern Europe.-8. What is said of the Alps?-10. With what is Ireland contrasted? St. Petersburg and Stockholm? Hammerfest? What are the causes of the mild climate of Western Europe? Describe the peculiarities in the climate of the interior of Western Europe.-11. What are the causes of the tropical climate of the Mediterranean? What contrast with New York and Boston? What is the climate of the Spanish plateau? - 12. What are the causes of the varied climate of the Great Plain?-13. What is said of the animals of the Arctic regions? Of the rivers? Of the inhabitants?-14. Of the mountains of High Europe?



Names.	Area in Square Miles.	Population.	Names.	Area îu Square Miles.	Population.	Names.	Area in Square Miles.	Population.
Norway	122,000	1,763,000	Portugal	34,500	4,000,000	Denmark	14,750	1,785,000
Sweden	172,000	4,298,000	France	204,100	36,470,000	German Empire	209,000	41,000,000
Russia in Europe	2,100,000	72,000,000	Algeria and other French colonies	400,000	5,800,000	Prussia	134,500	24,656,000
Russia in Asia	6,250,000	12,000,000	Italy	114,400	27,000,000	Bavaria	29,300	4,852,000
British Empire (about)	8,811,000	284,000,000	Switzerland	16,000	2,670,000	Saxony	5,800	2,556,000
England and Wales	57,800	22,712,000	Austria	240,300	36,000,000	Wurtemberg	7,500	1,819,000
Scotland and islands	31,300	3,360,000	Roumania	51,200	4,800,000	Baden	5,800	1,462,000
Ireland and smaller islands	32,500	5,557,000	Servia	20,400	1,640,000	Hesse	3,000	\$53,000
Colonial dependencies	8,690,000	252,000,000	Montenegro	3,200	210,000	Alsace-Lorraine	5,600	1,550,000
Spain	195,775	16,835,000	Turkey in Europe		8,500,000	The Netherlands	12,679	3,675,000
Spanish Colonies	117,000	6,500,000	Greece	19,350	1,458,000	Belgium	11,380	5,000,000



# POLITICAL EUROPE.

Dwina? Of the Duna? Countries.-What country forms the eastern half of Europe? What countries northwest of Russia? What countries on the Mediterranean Sea? On the Atlantic Ocean?

OUESTIONS ON THE MAP

France? Denmark? Scotland? Ireland? Cities and Towns.—In what part of the country? How

in Poland? What city is the capital of Russia? On what | of Russia? What three cities on the Volga? What city south of Moscow? Between Warsaw and St. Petersburg? river is it? (The Neva.) From what lake does the Neva Of the Volga? Near the centre flow? What city at its mouth? At the mouth of the On the Black Sea? West of Odessa? On the Dnieper?

## REVIEW EXERCISES,

Iceland? The Netherlands? Belgium? Switzerland? Italy? Spain? Portugal? England? Countries.— Where is it? How bounded? What is the Roumania? Servia? Montenegro? Austria? Germany? capital?—Norway? Sweden? Russia? Greece? Turkey?

Sweden? What four lakes flow into the Gulf of Finland? Which is the most western province of Russia? What city

Russia.-What countries border Russia on the northwest? On the southwest? What sea between Russia and

ital of Norway? What lakes in Sweden? What city is the

coast? On the southwestern coast? What city is the cap-

capital of Sweden? What city on the Cattegat? South of

Stockholm? North of Stockholm? Northwest of Upsal?

port on the Arctic Ocean? What city on the western

way and Sweden? In the southern part of Norway? What

Norway and Sweden.-What mountains between Nor-

On the North Sea? What two countries have no sea-coast?

On the Black Sea? On the Adriatic? On the Baltic?

cow? Warsaw? Odessa? Kishenev? Riga? Saratov? grade? Cettigne? Vienna? Berlin? Copenhagen? LISBON? LONDON? EDINBURGH? DUBLIN? STOCKHOLM? Gottenburg? Norrkoping? Fahlun? Christiania? Bersituated?—Athens? Constantinople? Bucharest? Bel gen? Drontheim? Hammerfest? Sr. Petersburg? Mos-ROME? Astrakhan? THE HAGUE? BRUSSELS? PARIS? Wilna? Kasan? Kiev?

Peninsulas.—From what part of Europe does it project i -Scandinavian Peninsula? Lapland? Crimea? Turkey? Greece? Italy? Iberian Peninsula?

Mountains.—Where are they ?—Ural? Caucasus? Scandinavian? Kiolen? Dovrefield?

Seas and Gulfs.-- Where is it ?-- White? Caspian? Bal tic? Black? Finland? Riga? Bothnia?

Rivers .- Where does it rise? In what direction does it -Dwina? Ural? Volga? Don? Dnieper?

Lakes. - Where situated? What outlet? - Onega? Ladoga? Peipus? Ilmen? Wener? Wetter?



## DESCRIPTION.

## LXXXIV.

## GOVERNMENTS AND POPULATION.

1. Governments. — Europe contains four empires, Russia, Turkey, Germany, and Austria; two republics, France and Switzerland; ten independent kingdoms, Norway, Sweden, Great Britain and Ireland, Spain, Portugal, Italy, Greece, Denmark, Belgium, and the Netherlands; and three independent principalities, Roumania, Servia, and Montenegro. Russia and Turkey are absolute, Germany, Austria, and the ten kingdoms are limited monarchies.

Besides these, there are in the German Empire the kingdoms of Prussia, Saxony, Bavaria, and Würtemberg; in the Austrian Empire, Bohemia, Galicia, Hungary, and Croatia and Slavonia; and in the Turkish Empire the principality of Bulgaria.

Andorra in Spain and San Marino in Italy are very small but ancient republics.

2. **Population.**—The total population of Europe is estimated at 300 millions, three fourths of it being in western Europe. It is nearly all Caucasian.

The three chief branches of the Caucasian race in Europe are the Celts in the west, the Teutons from the Alps to Scotland and northern Norway, and the Sclaves in the Great Plain.

The people of the eastern half of Europe belong mostly to the Greek Church; those of the northwestern regions are principally Protestants; nearly all the rest, including more than half the population, are Roman Catholics. Near the Black Sea are several millions of Mohammedans.

- 3. **Norway and Sweden.** Norway and Sweden occupy the Scandinavian peninsula. Norway is the smaller and more mountainous, and has only one third as many inhabitants as Sweden. The kingdoms are separate, but the same king rules over both.
- 4. The maritime commerce of Norway is extensive and important. The exports are lumber and fish.
- 5. In Sweden railways and a system of canals from the Baltic to the Cattegat unite the internal with the maritime commerce. The exports are grain, iron, and copper.
- 6. Christiania, the capital of Norway, and Bergen, its largest Atlantic port, have a large trade in lumber and fish. Hammerfest, the most northern town in the world, is dependent upon the cod-fisheries. The Norwegian fisheries nearly equal those of British North America.

Stockholm, the capital of Sweden, is situated on several small islands. Gottenburg is an important port and manufacturing city. Norrkoping is a grain port.

7. Russia.—The Russian Empire, next to that of Great Britain, is the most extensive dominion in the world. It includes about one half of Europe and more than one third of Asia. The monarch is called the Czar, or emperor. The inhabitants are mostly Sclaves.

[For remainder of Section LXXXIV., see page 90.]

## LXXXV.

## QUESTIONS ON THE MAP.

England and Wales.—What three countries on the island of Great Britain? What waters between Great Britain and Ireland? England and France? What island in the Irish Sea? What hills between England and Scotland? What mountains in Wales? What bay west of Wales? What two rivers flow into the North Sea? For what is the Thames remarkable? (For the largest maritime commerce in the world.) What river flows into the Bristol Channel? Into the Irish Sea? What city on the Thames? What port on the Humber? What city northwest of Hull? Southwest of York? West of Leeds? Near the mouth of the Mersey? South of Leeds? In the northern part of England? Near the centre? Near the Severn? What two cities east of Liverpool? On the south coast? In the southern part of Wales?

Scotland.—What islands northwest of Scotland? What groups north of Scotland? What hills in Scotland? What peak of the Grampians is the highest in Great Britain? (Ben Nevis, 4370 feet.) What name is given to the bays of the coast of Scotland? (Firths.) Name the five chief firths of Scotland. What firth, hills, and river form the boundary between Scotland and England? What river flows into the Firth of Clyde? What canal in the northern part of Scotland? What three cities on or near the east coast? On or near the Clyde?

Ireland.—What bays on the western coast of Ireland? Which is the largest river? What port in the northern part? In the northeastern?

In the eastern? What city in the southern part? What sea-port near it? What port on Galway Bay? On the Shannon?

Travels.—Through what cities would you pass in travelling by railway from Edinburgh to London by way of Newcastle? Plymouth to Hull by way of Birmingham? Newcastle to Liverpool by way of Leeds?

## LXXXVI.

## REVIEW EXERCISES.

Cities and Towns.—In what part of the country? How situated?—London? Liverpool? Manchester? Birmingham? Leeds? Sheffield? Bristol? Bradford? Newcastle? Salford? Hull? Portsmouth? York? Plymouth? Merthyr Tydvil? Swansea? Edinburgh? Glasgow? Dundee? Aberdeen? Paisley? Greenock? Dublin? Belfast? Cork? Londonderry? Galway? Limerick?

Islands.— Where situated?—Man? Hebrides? Orkney? Shetland?

Mountains.— Where are they?—Grampian Hills? Cheviot Hills?

Cambrian? Ben Nevis?

Seas, Gulfs, and Bays.—Where is it?—North Sea? Irish Sea? St. Georges Channel? English Channel? North Channel? Strait of Dover? Bristol Channel? Firth of Clyde? Firth of Forth? Solway Firth? Moray? Pentland? Cardigan Bay? Galway? Donegal?

Rivers.—Where does it rise? In what direction does it flow? Into what body of water?—Thames? Severn? Mersey? Clyde? Shannon?

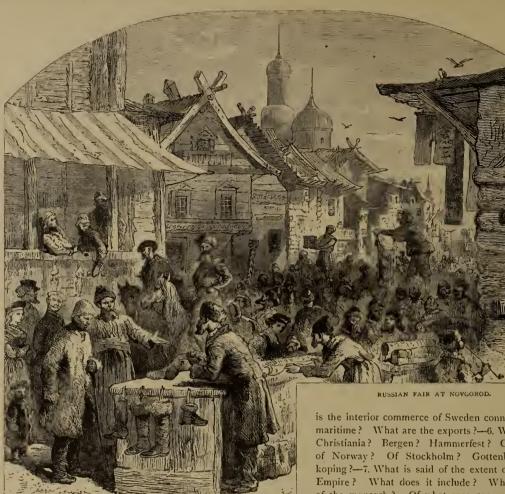


- 8. The exports, in the order of their importance, are grains, flaxseed, lumber, wool, flax, hemp, and cattle. The chief foreign trade is with Great Britain and Germany.
- 9. The principal cities are St. Petersburg, the capital and largest city and greatest commercial depot; Moscow, the ancient capital of Russia; and Warsaw, the chief city of Poland. The last two are manufacturing cities.

Riga and Cronstadt, on the Baltic, export grain, hemp, flax, and lumber; Odessa, on the Black Sea, is a great grain port; Astrakhan, on the Caspian, is noted for its fisheries and its caravan trade with Asia; Archangel, on the White Sea, exports oats, rye, flax, and forest prod-

Questions (I.) -1. How many and what empires in Europe? How many and what re-

publics? How many and what kingdoms? Which are absolute monarchies? Which are limited?-2. What is the population of Europe? In what part is most of it? Of what race?—3. Where are Norway and Sweden? How does Norway compare with Sweden in size? In surface? In population? What political connection have they? 4. What is the commerce of Norway? What are its principal exports?—5. How



is the interior commerce of Sweden connected with the maritime? What are the exports?-6. What is said of Christiania? Bergen? Hammerfest? Of the fisheries of Norway? Of Stockholm? Gottenburg? Norrkoping?-7. What is said of the extent of the Russian Empire? What does it include? What is the title of the monarch? Of what race are most of the inhabitants?-8. What are the leading exports? With what countries is most of the foreign trade?-9. For

what is St. Petersburg noted? Moscow? Warsaw? Riga and Cronstadt? Odessa? Astrakhan? Archangel?

(II.)-1. What kingdoms in the German Empire? In the Austrian? What small republic in Spain? What one in Italy? What is said of them?-2. What branches of the Caucasian race in Europe? What religions?

## GREAT BRITAIN AND IRELAND.

## LXXXVII.

## DESCRIPTION.

1. The United Kingdom of Great Britain and Ireland includes these two great islands and many neighboring small ones; it has also extensive colonial possessions in other parts of the world. The kingdom with its dependencies is generally called the British Empire.

The most important colonies are British America, Australia, Tasmania, New Zealand, British India, and Ceylon. Among its other possessions are Gibraltar, Malta, and Cyprus, in the Mediterranean Sea, South Africa, parts of the western coast of Africa, with St. Helena, Mauritius, and other African islands, many of the West India Islands, and parts of Central and South America.

2. **Occupations.**—The chief wealth of Great Britain is in its manufactures, mines, and extensive maritime commerce. Agriculture is carried to a high degree of perfection; in Ireland it is the leading occupation.

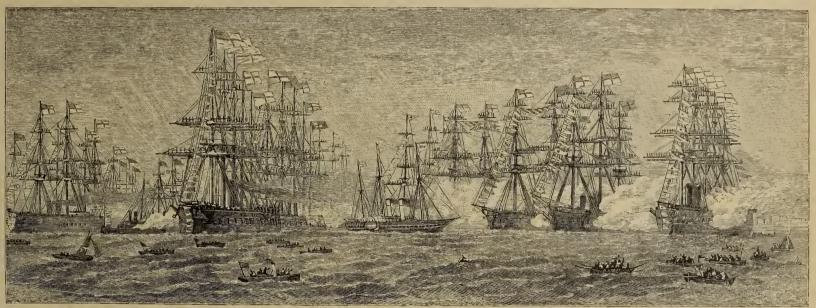
- 3. Mines.—The mines of Great Britain supply nearly one half of the coal, iron, and tin used in the world, one third of the lead, and great quantities of copper and salt.
- 4. Manufactures.—It surpasses every other country in the amount and variety of manufactures. The most important are of cotton, wool, and iron.
- 5. Commerce.—It has also a greater maritime commerce than any other nation.

It has at least 22,000 merchant vessels, and more than 200,000 seamen. They carry its manufactured products to every country on the globe, and bring in return food and raw materials. A large part of the food and two thirds of the raw cotton are obtained from the United States, which takes in return a greater quantity of manufactures than any other country. This commerce

is protected by the largest navy that has ever existed. Fortified naval depots for coal and provisions have been established on all the great routes of maritime trade. Among these depots are Gibraltar at the entrance, Malta in the middle, and Cyprus in the eastern part of the Mediterranean Sea; St. Helena, Cape Town, and Mauritius on the South African route, and Aden at the mouth of the Red Sea; Singapore at one end of the China Sea and Hong Kong at the other; Jamaica and other islands of the West Indies; Halifax, the Bermudas, and the Bahamas on the coasts of the United States; with many others in India and Australia, besides home depots.

the empire; if opposed by a majority of the House of Commons, he resigns, and the sovereign appoints his successor.

7. London, the capital of the kingdom and of the empire, is the most populous and wealthy city in the world; it is also first in commercial importance; it covers 122 square miles. Liverpool has a very large foreign commerce, especially with the United States; Manchester manufactures more cotton goods than any other city;



BRITISH NAVAL REVIEW

The several countries of Europe, and in many instances parts of the same country, differ widely in race, language, and religion. There are also intense commercial and political rivalries. As a result, mutual distrust and jealousy exist among the several governments, and Europe has become one great camp. In a time of professed peace between three and four millions of soldiers stand ready for war, and the military service is so arranged that this vast number of armed men can be more than doubled at the outbreak of hostilities. Besides all this, great navies, that of Great Britain being the most powerful, are ready to extend upon the sea the destruction which may at any time begin upon the land.

These enormous armaments are maintained by a grinding taxation and, in many countries, by a merciless conscription that withdraws millions of young men for years from all productive industry. In consequence of this, in every part of Europe thousands of women are obliged to work in the fields, and to engage in other forms of the hardest and rudest labor. In contrast with this state of affairs, the United States, though equal in area to all Europe, has but a small navy and a widely scattered army of about 30,000 men.

## 6. **Government.** — Great Britain is a constitutional monarchy.

The Legislature, or Parliament, has two branches—the House of Lords, consisting of bishops and nobles, and the House of Commons, the members of which are elected by the people. The executive power and the entire responsibility of the government are in the hands of a small body of men called the Ministry; they are appointed by the sovereign, through the influence of the Commons. The Prime Minister is practically the real ruler of

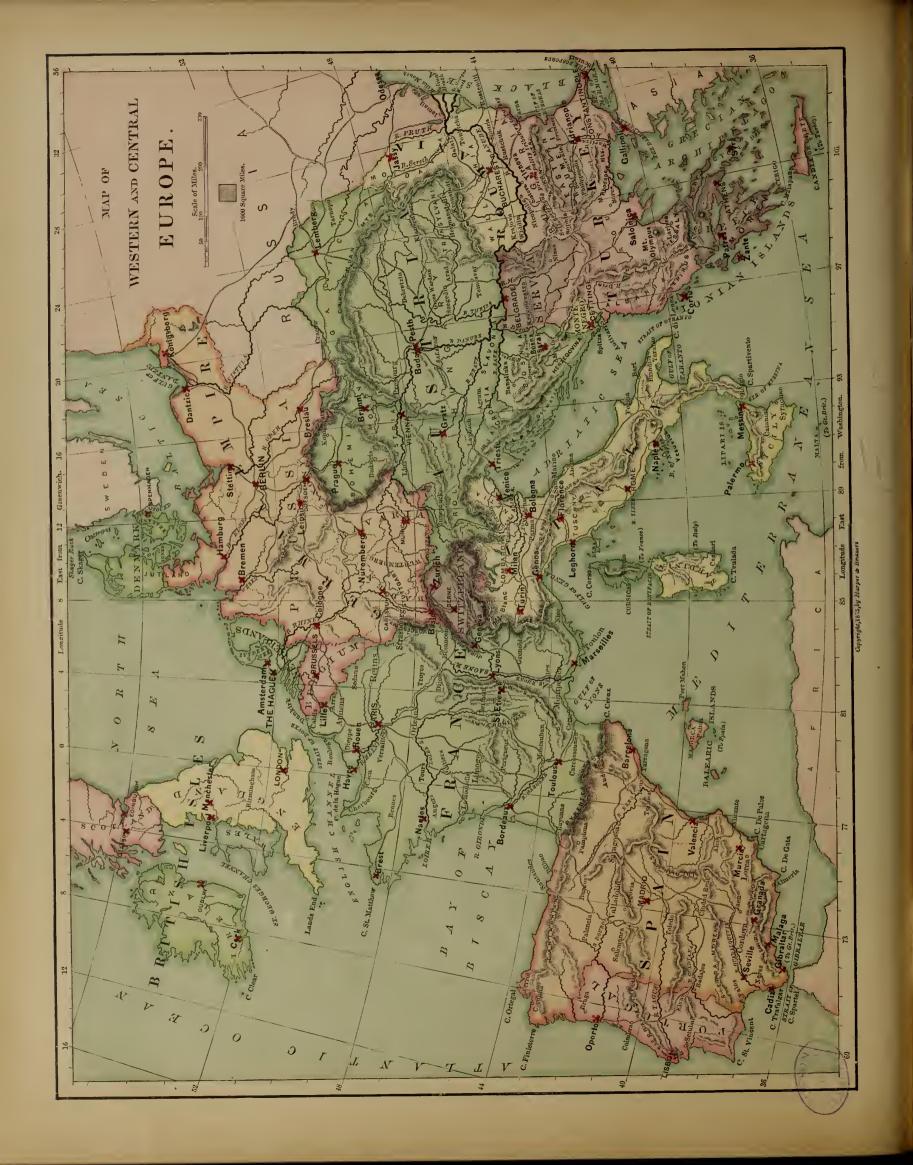
Leeds and Bradford are noted for woollen manufactures, Sheffield for cutlery, Birmingham for general hardware, Newcastle for coal. In Wales, Merthyr Tydvil and Swansea are the largest cities.

In Scotland, Glasgow is the largest city; it is also the leading manufacturing city and the chief seat of commerce. Edinburgh, the capital; Dundee, which manufactures sail-cloth and other coarse fabrics; and Aberdeen, a large sea-port, are important cities.

In Ireland, Dublin is the capital and largest city. Belfast manufactures more linen goods than any other city in the world. Cork and Limerick are also important cities.

Questions (I.)—1. What does the United Kingdom of Great Britain and Ireland include? What other possessions has it? What is meant by the British Empire?—2. In what does the chief wealth of Great Britain consist? What is said of agriculture?—3. Of the mines of Great Britain?—4. Of the manufactures? Name the most important.—5. What is said of the commerce?—6. Of the government?—7. What is said of London? Liverpool? Manchester? Leeds and Bradford? Sheffield? Birmingham? Newcastle? Merthyr Tydvil and Swansea? Glasgow? Edinburgh? Dundee? Aberdeen? Dublin? Belfast? Cork and Limerick?

(II.)—1. Name the most important British colonies. What other possessions has the United Kingdom?—5. How many merchant vessels has Great Britain? How many seamen? In what are they engaged? With what country is the chief trade? How is the foreign commerce protected? How is the navy made effective? Name the depots. In what do the several countries of Europe differ? What rivalries exist? What is the result? What is said of the standing armies? Of the navies? What country of Europe has the most powerful navy? By what means are these armies and navies maintained? What is the consequence? What is said of the army and navy of the United States?—6. Describe the government of Great Britain.



## LXXXVIII

# OUESTIONS ON THE MAP

Spain.—What mountain ranges in Spain? What four What port in the northeast? In the east? What two ports rivers of Spain flow into the Atlantic Ocean? What one into the Mediterranean Sea? What two capes on the northwest coast? What one at the northeast point? What fortified promontory belonging to England is at the southern point of Spain? (Gibraltar.) What city is the capital? in the south? What city on the Guadalquivir? East of Seville? Northeast of Granada?

30

Portugal. -- What mountain range crosses Portugal? What three rivers? What port near the mouth of the Douro? What is the capital? On what river? What cape at the southwestern extremity?

What cities on the Seine River? Which is gium? At the bend of the Rhone? Southwest of Lyons? On the Gulf of Lyons? On the Loire? What two cities France.-What countries east of France? What large island in the Mediterranean belongs to France? What two rivers flow into the Bay of Biscay? What one into the English Channel? The Gulf of Lyons? What mountain on the borders of France? In the interior? What capes the capital? What city is its port? What city near Belon the Garonne River? What port in the northwest? on the coast?

Italy.—What two countries on the north of Italy? What river in the north? What four cities north of the Apenuine Mountains? What city south of Bologna? What Italy? On what river? What two large islands belong to cities on the west coast of Italy? What is the capital of the Kingdom of Italy? What cities in Sicily?

What mountains on the western border? What lake on | peninsula partly in Denmark? What city is the capital? Switzerland.—What countries border on Switzerland?

lake? What city on the Rhine at the northern border? through it? What city at the outlet? What lofty peak in the Alps is the highest in Europe? (Mount Blanc, 15,760 the northeastern border? What river flows through that What lake on the southwestern border? What river flows feet.) What city is the capital? What city east of Basle?

the northeast? Southeast of Prague? What two Hungarian dom occupies the centre of Austria? (Hungary.) What What lake in Hungary? What city in the northwest? In cities are opposite each other on the Danube? What Austrian sea-port on the Adriatic Sea? What city is the cap-Austria. -- What countries bound Austria? What kingmountains in the northern part of Austria? In the north-Which is the principal river of Austria? Name the three chief branches of the Danube. ital of Austria? What city southwest of Vienna? east? Near the Adriatic?

mountains, rivers, and sea? What is the capital? What Roumania, Servia, and Montenegro. -- What two provinces constitute Roumania? What countries bound it? What countries bound Servia? What mountains and rivers? What is the capital? What countries bound Montenegro? What sea? What is the capital?

Turkey. -- What countries bound Turkey? What waters? What province south of Bulgaria? What mountains in Turkey? What Turkish island south of Greece? What What principality south of the Danube? What city in it? Constantinople? What port on the Dardanelles? What city is the capital of Turkey? What city northwest of other port in the southern part of Turkey?

of the mainland? What city is the capital of Greece? What Greece.—What peninsula in Greece? What island northtown on the northern shore of the Morea? What port in east of the mainland? What group south of Eubea? West the Cyclades? In the Ionian Islands?

Denmark.-Name the principal Danish islands. What

## REVIEW EXERCISES

St. Etienne? Havre? Rouen? RomE? va? Zurich? Basle? Vienna? Pesth? Buda? Prague? Trieste? Gratz? Brunn? Lemberg? Bucharest? Bel.-Malaga? Murcia? Cadiz? Gibraltar? Lisbon? Oporto? Naples? Milan? Palermo? Turin? Florence? Genoa? Venice? Bologna? Messina? Leghorn? Berne? Gene-CETTIGNE? CONSTANTINOPLE? Adrianople? MADRID? Barcelona? Seville? Valencia? Granada? Paris? Lyons? Marseilles? Bordeaux? Lille? Tou-Cities.—In what part of the country? How situated?— Salonica? ATHENS? Syra? Patras? Zante? louse? Nantes? GRADE?

Sardinia? Sicily? Malta? Ionian Islands? Cyclades? Islands.— Where situated !—Balearic Islands? Eubea? Candia? Cyprus? Iceland? Capes. - From what coast does it project? - Gibraltar? St. Vincent? Finisterre? St. Matthew? La Hogue? Creux? Matapan? Mountains.-Where are they !- Sierra Nevada? Sierra Jura? Alps? Cevennes? Auvergne? Mount Blanc? Apennines? Balkan? Carpathian? Etna (v.)? Morena? Sierra Estrella? Cantabrian? Iberian? Pyr-Vesuvius (v.)? Hecla (v.)? enees;

Seas, Gulfs, and Bays. - Where is it? - Mediterranean? Marmora? Black? Adriatic? Genoa? Lyons? Biscay? Rivers .- Where does it rise? In what direction does it flow? Through what countries? Into what body of water? Tagus? Guadiana? Guadalquivir? Ebro? Rhone? Ti--Rhine? Seine? Loire? Gironde? Garonne? Douro? | ber? Po? Danube? Pruth? Save? Drave? Theiss?

## EUROPE CENTRAL AND WESTERN

## XC.

## DESCRIPTION

1. Spain and Portugal.—The commerce of Spain and Portugal is comparatively limited. The rivers are not navigable. Railways connect all the important cities. Spain exports wool from the dry plains of

the table-land, cork from its oak forests, and | Among other cities are Seville, noted for fruit wine, olive-oil, silk, and fruits from the Mediterranean and the Guadalquivir. The exports of

Portugal are similar to those of Spain.

in population, is the chief commercial city. 2. Madrid, the capital and largest city of Spain, is noted for its palaces and its galleries of valuable paintings. Barcelona, the second

and for the largest tobacco manufactories in Europe; Valencia, famous for silks; and Malaga, for fruits and wines.

3. Lisbon, the capital of Portugal, is the largest city; it is the principal commercial and manufacturing city of the kingdom. Oporto, the second city, is famous for its port-wine.



The chief colonial possessions of Spain are Cuba, Porto Rico, and the Philippine Islands; those of Portugal are the Cape Verde and the Madeira Islands, and Lower Guinea in Africa.

4. France.—The greater part of the people of France

are engaged in agriculture. In the extent of its commerce and the value of its manufactures it is second only to Great Britain. Coal-mines near Belgium and in the Cevennes furnish an abundance of fuel for steam-power.

The country is covered with a network of railways. Its four great rivers, the Garonne, the Loire, the Seine, and the Rhone, are navigable for small steamers, and are connected by canals.

The leading exports are wines and liquors, silks, woollens, cottons, jewelry, and hardware.

5. Paris, the capital of France, is the largest city on the continent of Europe. It is a great centre of learning, fashion, and the fine arts. It is noted for its magnificent public buildings, its numerous and excellent literary

and scientific institutions, and its varied and tasteful manufactures. It is the central point of nearly all the railways of the country. Lyons, the second city, is the chief seat of the silk manufacture. Among the other

large cities are Marseilles, the most important port; Bordeaux, the principal depot for wines and brandies; Lille, noted for its cloths and cotton and linen goods; and Havre, the port of Paris.

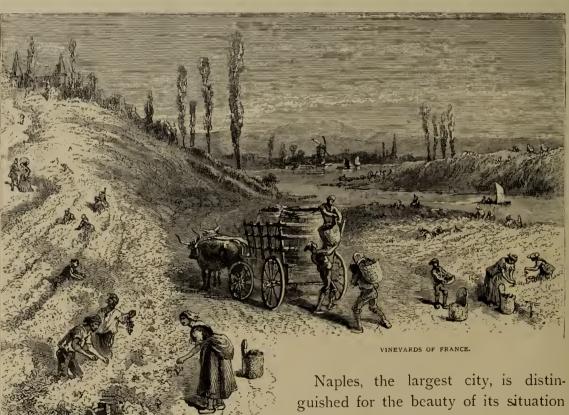
The foreign possessions of France are quite extensive. Algeria, in Africa, and the island of Corsica are provinces having representatives in the French Legislative Assembly. Besides these there are colonies in Africa, the West Indies, Guiana, the Indian Ocean, Polynesia, India, and Indo-China.

6. **Italy.**—Italy has a large export trade in olive-oil, fruits, sulphur, and in manufactures of silk, linen, and straw.

The Po and the Adige are the only navigable rivers. The fertile plain through which they flow produces a large amount of wheat, maize, and rice.

7. Rome, the capital of Italy, is the most celebrated city in history. It was the capital of the ancient Roman Empire. It is the residence of the Pope, who is the head of the Roman Catholic Church.

Its magnificent ruins, its collections of ancient sculptures and paintings, the splendor of its churches, and its religious importance attract great numbers of visitors from every part of the world.



Naples, the largest city, is distinguished for the beauty of its situation and for its manufactures of silk. Among other important cities are Milan, noted for its silk trade and its

cathedral; Palermo, the largest city in Sicily; Turin, recently the capital of Italy; Florence, containing one of the finest collections of paintings and statuary in the world; Genoa, the birthplace of Columbus; and Venice,



SCENE IN VENICE

remarkable for its situation on several small islands, and for its numerous canals, which take the place of streets.

8. **Switzerland.**—Switzerland, the highest part of Europe, is chiefly a land of mountains.

The ranges of the Alps, with their intermediate valleys, cover two thirds of the country. A high plain between the Alpine system and the Jura Mountains constitutes the remaining third. This plain and most of the Alpine valleys are carefully cultivated, and flocks and herds abound.

9. Switzerland is a federal republic of twenty-two small states called Cantons. About three fourths of the inhabitants are Germans, about one sixth are French, and most of the remainder Italians.

10. The manufacture of small articles, such as watches, jewelry, silk-stuffs, ribbons, and toys, is the chief occupation; these articles, and cattle, butter, and cheese, are the chief exports. The foreign trade is carried on chiefly through Germany and France.

11. Geneva, noted for its manufacture of watches and for its beautiful situation at the outlet of Lake Geneva, is the largest city. Basle, the second city, and Zurich are largely engaged in the manufacture of silks. Berne is the capital.

Questions (I.)—1. What is said of the commerce of Spain and Portugal?

Of the rivers? Of the railways? What are the chief exports of Spain? Of
Portugal?—2. For what is Madrid noted? Barcelona? Seville? Valencia?

Malaga?—3. Lisbon? Oporto?—4. What is the chief occupation of the people
of France? What is said of the commerce and manufactures? Of the coalmines? Of the railways? Of the rivers? What are the principal exports?—5. What
is said of Paris? Lyons? Marseilles? Bordeaux? Lille? Havre?—6. What are the
chief exports of Italy? What are its chief rivers? What are the productions of the
plain of the Po?—7. What is said of Rome? Naples? Milan? Palermo? Turin?
Florence? Genoa? Venice?—8. Which is the most elevated country in Europe?
What is the general character of the country?—9. What is the form of government?
How many states are there? What are they called? Who are the inhabitants?—
10. What is the chief occupation? What are the chief exports? How is the foreign
trade carried on?—11. What is said of Geneva? Basle and Zurich? Berne?

(II.)—3. What is said of the foreign possessions of Spain and Portugal?—5. Of France? What other possessions?—7. What are the chief attractions of Rome?—8. What mountains cover a large part of Switzerland? Where is the high plain?

## XCI.

## AUSTRIA.-TURKEY.-GREECE.-DENMARK.

1. Austrian Empire.—The proper official title of Austria is "The Austro-Hungarian Empire."

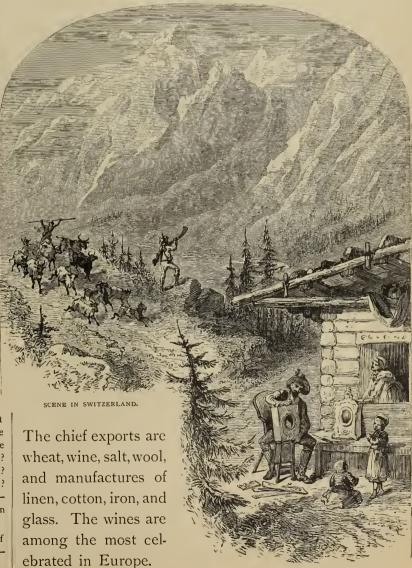
It is divided into two distinct and nearly independent groups of provinces. Each group has a government of its own; there is also a general government for the whole empire.

The Kingdom of Hungary and its dependencies constitute nearly one half of the empire. The Emperor of Austria is King of Hungary.

The provinces differ so much in nationality, race, language, and religion that the empire is with difficulty held together. One fourth of the people are Germans, and are mostly in the provinces bordering on Germany; one sixth are the Magyars of Hungary (Mongols); one half are Sclaves; the remainder are Jews, Gypsies, Greeks, etc.

2. The Danube and its navigable branches form an important system of water-ways, extending entirely across the empire. There are also numerous railways.

3. The country is rich in a great variety of agricultural productions, valuable minerals, and extensive forests.



- 4. Vienna, the capital of the empire, is the largest city; it is the chief centre of manufactures and domestic commerce, and is connected by railways with every part of the empire. Buda is the capital of Hungary. Pesth and Prague are the second and third cities of the empire; Pesth is the great emporium of the Hungarian Kingdom. Trieste, the principal sea-port of the empire, has an extensive commerce.
- 5. Roumania, Servia, and Montenegro. These countries were recently parts of the Turkish Empire, but are now independent Christian principalities.
- 6. **Turkish Empire.** The Turkish or Ottoman Empire includes European Turkey, Asiatic Turkey, a large part of Northeastern Africa, a part of Arabia, Crete, and other islands.
  - Though possessed of unsurpassed natural advantages for agriculture, commerce, and other industries, an oppressive government has made Turkey the lowest of European countries in the scale of civilization.
- 7. The inhabitants of European Turkey are of many races, languages, and religions. The Turks are the governing race, though they constitute only a small part of the population; they are Mongol Mohammedans from Asia. Bulgaria is a self-governing but tributary principality.
- 8. The chief exports of Turkey are tobacco, wine, oliveoil, cotton, fruits, silk, wool, carpets, and Morocco leather.



CONSTANTINOPLE

9. Constantinople, beautifully situated on the Bosporus, is the capital of the Turkish Empire, and the residence of the Grand Sultan, or Emperor, who is also the head of the Mohammedan religion. Adrianople and

Salonica are the chief commercial centres, and are noted for the manufacture of carpets, silks, and leather.

10. **Greece.**—Greece may be divided into Continental Greece and Insular Greece. Continental Greece includes the mainland and the peninsula of the Morea, or Peloponnesus; Insular Greece includes the Ionian Islands and those of the Grecian Archipelago.

Insular Greece is commercially the more important. It contains one third of the population and all the larger towns except Athens and Patras.

Greek merchants and seamen conduct the greater part of the commerce of the Black Sea and the Levant, or eastern part of the Mediterranean.

The principal exports are olive-oil, honey, silk, wax, wine, currants, figs, and raisins.

- The ancient Greeks were celebrated above all other peoples for their valor and patriotism, and for their genius in literature, philosophy, and the fine arts. Their poets, philosophers, orators, historians, architects, and sculptors have never been surpassed.
- 11. Athens, the capital and largest city, was noted in ancient times for its pre-eminence in art and literature. Syra, or Hermopolis, is the commercial centre; it is the chief station of the lines of steam vessels navigating the Eastern Mediterranean. Zante, Corfu, and Patras are important ports.
- 12. **Denmark.**—Denmark consists of a number of islands and the northern half of the peninsula of Jutland. The islands contain the greater part of the population.
- 13. Agriculture and fishing are the principal occupations. Horses, cattle, butter, cheese, pork, and grains are largely exported.

The colonial possessions are Greenland, Iceland, the Faroe Islands, and several small islands in the West Indies.

14. Copenhagen, on the island of Zealand, is the capital and largest city.

Questions (I.)—1. What is the official title of Austria? What kingdom is a part of the empire? Who is its king?—2. What system of water-ways is there? What other means of transportation?—3. In what is Austria rich? What are the principal exports? What is said of the wines?—4. For what is Vienna noted? Buda? Pesth? Prague? Trieste?—5. What is said of Roumania, Servia, and Montenegro?—6. What does the Turkish or Ottoman Empire include?—7. How do the inhabitants differ? What is said of the Turks? What is said of Bulgaria?—8. What are the exports of Turkey?—9. For what is Constantinople noted? Adrianople and Salonica?—10. How may Greece be divided? What does Continental Greece include? Insular Greece? Which is the more important division of Greece? What is said of it? Who conduct most of the commerce of the Black Sea and the Levant? What does Levant mean? What are the exports of Greece?—11. For what is Athens noted? Syra? What important ports?—12. Of what does Denmark consist? Where is most of the population?—13. What are the chief occupations? Exports?—14. For what is Copenhagen noted?

(II.)—1. How is the empire divided? How governed? Why is Austria governed with difficulty? What part of the people are Germans? What part Mongols? What race is most numerous? What other peoples in Austria?—6. What is the rank of Turkey in the scale of civilization?—10. For what were the ancient Greeks celebrated?—13. What colonial possessions has Denmark?



## XCII.

## QUESTIONS ON THE MAP.

Germany.—What two seas bound Germany on the north? What kingdom? What empire east? What empire south? What republic? What three countries on the west? What German state north of the Prussian province of Brandenburg? What one nearly enclosed by Hanover? What kingdoms between Prussia and Austria? What group of small states west of Saxony? (*The Saxes.*) What kingdom southwest of Saxony? West of Bavaria? What state west of Wurtemberg? What state between Baden and Prussia? (*Hesse.*) What German province west of Baden? (*Alsace-Lorraine.*)

Prussia.—What five rivers cross Prussia? What mountains in Prussian Saxony? What city in the Rhine Provinces? Which are the two chief branches of the Rhine? What city on the Main? In Westphalia? In Hanover? In Prussian Saxony? On what river is Magdeburg? What city is the capital of Prussia? On what river is Berlin? What port near the mouth of the Oder? What city in Silesia? What mount-

ains between Silesia and Bohemia? What city on the Gulf of Dantzic? What one in the northeastern part of Prussia?

Bavaria.—What mountains east of Bavaria? What Austrian province? What river crosses Bavaria? What German states form the northern and western boundaries? What city is the capital? On what river? What city nearly west of Munich? What one in the northern part of the kingdom?

Saxony.—What German states border on Saxony? What Austrian province? What mountains between them? What city is the capital? What city in the northern part?

Other States.—What city is the capital of Wurtemberg? The capital of Baden? Of Alsace? What port on the Elbe near its mouth? What city on the Weser? On the Baltic northeast of Hamburg?

Netherlands.—What water on the west and north? What country south? What three provinces of Prussia on the east? What sea in the Netherlands? What great river crosses the kingdom? What city on the Zuyder Zee? What one south of Amsterdam? West of Utrecht? Southwest of Leyden? Southeast of The Hague? What city is the capital?

Belgium.—What German provinces east of Belgium? What one south? What country southwest? What two rivers in Belgium? Into what do they flow? What mountains near the French border? What cities on or near the Scheldt? What city west of Antwerp? Northwest of Ghent? On the Meuse? What city is the capital?

## XCIII.

## REVIEW EXERCISES.

Cities.—In what part of the country? How situated?—BERLIN? Seas and Gulfs.—Wh. Breslau? Cologne? Magdeburg? Konigsberg? Hanover? Frankfort- Zee? Gulf of Dantzic?

on-Main? Dantzic? Stettin? Barmen? Posen? MUNICH? Nuremberg? Augsburg? Dresden? Leipsic? Stuttgart? Hamburg? Bremen? Lubec? Carlsruhe? Strasbourg? The Hague? Amsterdam? Rotterdam? Utrecht? Leyden? Brussels? Antwerp? Ghent? Liege? Bruges?

Mountains.—Where are they?—Bohmerwald? Erz? Riesen? Harz? Ardennes?

Rivers.—Where does it rise? In what direction does it flow? Into what body of water?—Rhine? Moselle? Main? Weser? Elbe? Oder? Vistula? Meuse? Scheldt?

Seas and Gulfs.—Where is it?—North Sea? Baltic Sea? Zuyder Zee? Gulf of Dantzic?

## GERMAN EMPIRE AND NETHERLANDS AND BELGIUM.

## XCIV. DESCRIPTION.



1. The German Empire is a confederation of twentysix states, and is the greatest military power in the world. It contains four kingdoms—Prussia, the largest and most populous, Saxony, Bavaria, and Wurtemberg.

Besides these kingdoms there are grand duchies, duchies, principalities, and the free cities Hamburg, Bremen, and Lubec.

2. **Government.**—The general government of the empire is a limited monarchy. All the separate states are also limited monarchies, excepting the three free cities, which are democratic republics. The King of Prussia is the German Emperor.

The Legislature of the empire consists of two bodies—the Federal Council, consisting of 59 members, and somewhat resembling the English House of Lords; and the Reichstag, consisting of 397 members, who are elected by universal suffrage.

The Kingdom of Prussia is one of the most powerful monarchies of Europe. It is noted for its great and efficient armies, the general intelligence of its people, and the most complete and comprehensive system of public schools in the world.

3. **Population.**—The total German population of Europe is about fifty-two millions. Of these forty-one millions are inhabitants of the empire. Austria has about eight millions, Switzerland two millions, and Russia about one million.

The Germans are remarkable for their attainments in science, literature, and art, and for their military skill.

- 4. **Manufactures.**—The manufactures are varied and extensive. The exports are wheat, wine, zinc, and manufactured articles. Prussia furnishes about half the zinc used in the world.
- 5. The principal cities of the German Empire are Berlin, the capital and largest city of Prussia; Breslau, the principal wool market on the Continent of Europe; Cologne, the chief city of the Rhine Provinces, noted for its cathedral and its trade in wines; Konigsberg and Dantzic, the principal grain ports of Prussia; Stettin, an important port; Coblentz and Magdeburg, famous for their strong fortifications; Barmen, celebrated for its extensive cotton manufactures; and Frankfort, the financial



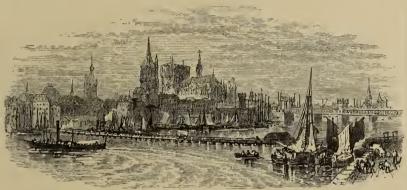
BINGEN.

centre and the emporium of inland trade.

Of the three free cities, or Hanse Towns, Hamburg is the chief commercial city of the continent of Europe, and the depot of trade with America and Great Britain; and Bremen is the principal port for the German emigration to the United States.

Dresden, the capital of Saxony, is noted for its art galleries; Leipsic, for its extensive manufacture of books and for its annual fairs.

Munich, the capital of Bavaria, is noted for its art galleries and its manufacture of telescopes and other scientific instruments.



COLOGNE.

Among other cities of Germany are Stuttgart, celebrated for its vineyards; and Strasbourg, for its cathedral and for its famous sieges.

- 6. **Netherlands and Belgium.**—These countries are densely populated, Belgium being the most crowded part of Europe.
- 7. **Possessions.**—The colonial possessions of the Netherlands are, next to those of Great Britain, the most extensive and valuable in the world.

They include the most important portions of the East Indian Archipelago, Dutch Guiana, and several islands in the West Indies.

8. **Surface.**—A considerable portion of Belgium, and a still larger part of the Netherlands, lie below the level of the sea.

The waters of the ocean are kept out, in part, by long hills of sand called "dunes," which have been thrown up by the waves and winds, and in part by great banks of earth called dikes, which face the sea and extend up the rivers.

The southern part of Belgium is mountainous, and is rich in timber, coal, and iron.

These supply the elements of mechanical power, and, together with the abundance of labor and the number of the ports, railways, navigable rivers, and large canals, place these countries among



HEIDELBERG

the foremost in the world in all the forms of mechanical industry, in foreign and domestic commerce, and in wealth.

- 9. **Occupations.**—Agriculture is the principal occupation in the Netherlands, and manufactures and mining in Belgium.
- 10. **Commerce.**—The foreign trade is one of the largest in the world. The Netherlands export fish, dairy products, and the produce of their extensive East and West Indian colonies. Belgium exports a great amount and variety of fine manufactured goods, including those of silk, cotton, wool, linen, leather, and iron.
- 11. Amsterdam, the largest city of the Netherlands, is remarkable for its many street canals, its great dikes, and its extensive maritime commerce; and Rotterdam, the second city, for its distilled liquors. The Hague, Utrecht, and Leyden are important cities.

The chief cities of Belgium are Brussels, the capital and largest city, celebrated for its manufactures of lace and carpets; Antwerp, the principal port and fortress of Belgium; Ghent, second only to Manchester in England in the manufacture of cotton goods; Liege, noted for firearms and cutlery; and Bruges, celebrated for its manufactures of linen and lace.

Questions (I.)—1. What is the German Empire? How many and what kingdoms does it contain?—2. What is the government of the empire? Of the separate states? Of the free cities? Who is the German Emperor? What is said of the Kingdom of Prussia? For what is it noted?—3. What is the total German population of Europe? Of the German Empire? Of Austria? Of Switzerland? Of Russia? For what are the Germans remarkable?—4. What is said of the manufactures? What are the exports?—5. What is said of Berlin? Breslau? Cologne? Königsberg? Dantzic? Stettin? Coblentz and Magdeburg? Barmen? Frankfort? Hamburg? Bremen? Dresden? Leipsic? Munich? Stuttgart? Strasbourg?—6. What is said of the population of the Netherlands and Belgium?—7. Of the colonial possessions of the Netherlands?—8. Of the surface of the Netherlands and Belgium? Of the southern part of Belgium?—In what is it rich?—9. What are the leading occupations in these countries?—10. What is said of the foreign trade? What are the principal exports of the Netherlands? Of Belgium?—11. For what is Amsterdam noted? Rotterdam? What other large cities? For what is Brussels noted? Antwerp? Ghent? Liege? Bruges?

(II.)—1. What other political divisions are included in the German Empire?—2. Of what does the legislature consist?—7. Which are the colonial possessions of the Netherlands?—8. How are the Netherlands and Belgium protected from the waters of the ocean? In what respects are these countries among the foremost in the world? What are the causes?



## OUESTIONS ON THE MAP.

What three oceans wash the shores of Asia? What continents on What isthmus connects Asia with Africa? Name the six islands and peninsula partly enclose Behring Sea? Okhotsk Sea? principal seas of the eastern coast. What islands north of Asia? What Yellow Sea? China Sea? What islands east of the Blue What gulf north of the Arabian Sea? What strait leads to it? What Sea? What island east of the Strait of Formosa? In the northern What peninsula at the southeastern extremity of Asia? What island south of it? Name the five principal straits between the Arctic Ocean and Sumatra. What two gulfs are connected with the China Sea? What bay and sea with the Indian Ocean? What gulf What strait leads to it? sea between Asia and Africa? west of the Arabian Sea? part of the China Sea? [apan Sea?

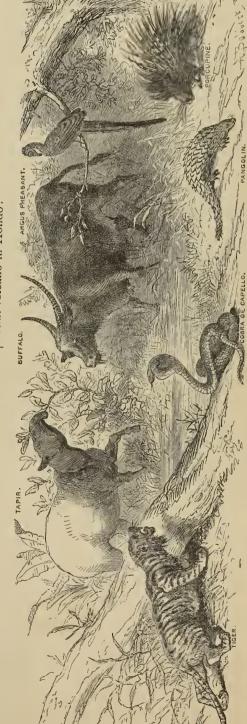
part of the plateau belt? Do most of the plateaus and mountains lie border? What system forms its northern border? What mountains east or west of the plateau of Pameer? What plateau forms the highest part of the eastern mass? What mountain system forms its southern in the western part? What two deserts are east of Pameer? What mountain systems between the plateau belt and the Siberian plains? What mountains south and east of the deserts? Name the great rivers Asia extends from Pameer to the Persian Gulf? What three deserts What plateau between the Persian Gulf and the Red Sea? that rise in the plateau belt or on its borders. What plateau of western on the plateau of Iran? What mountains separate it from the Great What deserts on the Arabian plateau? What plain between the plateaus of Iran and Arabia? What two rivers drain it? Plain?

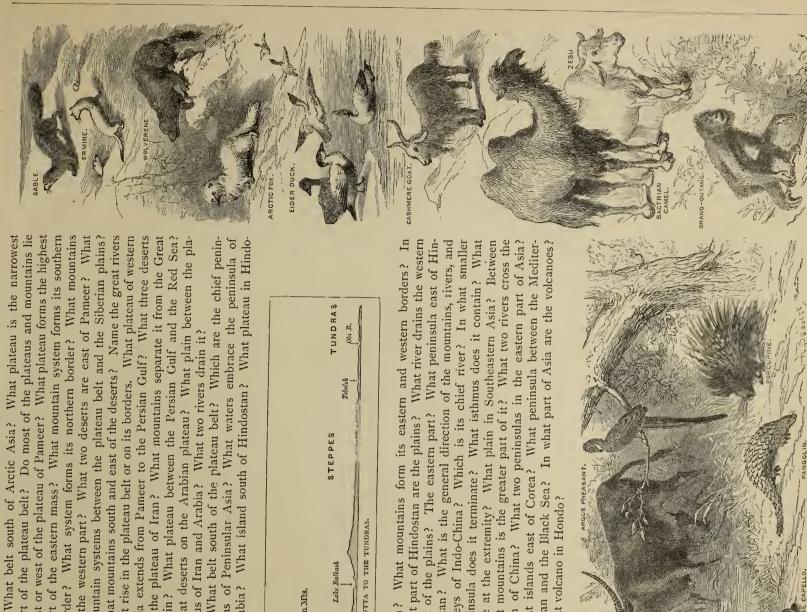
What belt south of the plateau belt? Which are the chief peninsulas of Peninsular Asia? What waters embrace the peninsula of Arabia? What island south of Hindostan? What plateau in Hindo-

TUNDRAS Obi R. STEPPES PROFILE SECTION OF ASIA FROM CALCUTTA TO THE TUNDRAS, Lake Balkash ian Shan Mrs. Kuen Lun Mts. Kara Korum Mts. LATEAU OF THIBET Himaiaya Mts.

Of what does Arctic Asia chiefly consist? (Lowland plains.) What general name is given to the northern plain? With what European plain is it connected? In what part of it are the tundras or mossy marshes? What belt lies south of the tundras? Southwest of the forest Why? What great river flows into the Okhotsk Sea? What large island east of the Channel of Tartary? What mountain system partly separates the Siberian from the Russian plain? What three large lakes or seas in the southwestern part of the Siberian Plain? South of the Black Sea? What belt? What three great rivers drain the plain? Are they navigable from Which of these is the largest lake in the world? What mountains belake in the southern part of Arctic Asia? tween the Caspian and Black seas? the Arctic Ocean?

stan? What mountains form its eastern and western borders? In what part of Hindostan are the plains? What river drains the western valleys of Indo-China? Which is its chief river? In what smaller peninsula does it terminate? What isthmus does it contain? What cape at the extremity? What plain in Southeastern Asia? Between what mountains is the greater part of it? What two rivers cross the plain of China? What two peninsulas in the eastern part of Asia? dostan? What is the general direction of the mountains, rivers, and What peninsula between the Mediterranean and the Black Sea? In what part of Asia are the volcanoes? part of the plains? The eastern part? What islands east of Corea? What volcano in Hondo?







# XCVI.

is also first in the number and height of its mountain systems; in the extent and elevation of its plateaus; in the size of its peninsulas, archipelagoes, and salt lakes; in the number of

its inhabitants, and in their diversity of race, language, religion, and civilization.

PHYSICAL ASIA.

2. It may be divided into four nearly parallel belts, viz., Arctic Asia, Desert Asia, Peninsular Asia, and Insular Asia.

3. Arctic Asia is included mainly in the Great Siberian Plain.

The Siberian Plain extends from the Elburz and Altai Mountains to the shores of the frozen ocean. It has a climate of unsurpassed severity. It consists of three belts of country similar to those of the Great Plain of European Russia.

In the north are mossy swamps, called tundras, inhabited by nomad tribes dependent upon the reindeer and upon the fish of the great rivers.

[For remainder of Section XCVI., see page 104.]

### XCVII. OUESTIONS ON THE MAP.

General.—What country occupies the northern part of the Continent of Asia? What empire the southeastern part? What empire east of it? What countries occupy the remainder of Asia?

Asiatic Russia.—To what European state does Siberia belong? What cities on the Obi? What branch has the Obi? What cities on the Irtish? What city southwest of Tobolsk? What city near Lake Baikal? South of Irkoutsk in the Chinese Empire? What province north of the Amoor River? What province east of the Caspian Sea? What rivers in it? What city on the Amoo? What city southeast of Khiva? What country between the Caspian and Black Seas? What city in Georgia?

Chinese Empire.—In what part of the empire is China? What province west of China? What city is the capital of Thibet? What province northwest of China? What province east of Mongolia? Southeast of Mantchooria? What is the capital of Corea? What two great rivers in China? What canal connects them? What city is the capital? What city in the southern part of China? What British island and port near Canton? What cities on or near the eastern coast? What cities on the Yang-tse-Kiang?

Empire of Japan.—Name the four principal islands of this empire. Which is the largest? What city is the capital? What port near it? What other cities in Hondo?

Indo-China.—What countries are in Indo-China? What European nation owns the northwestern shores? The south-eastern shores? What city is the capital of Anam? Of Siam? Of Burmah? What port in the French possessions?

British India.—What peninsula forms the principal part of British India? What country in Indo-China is a part of British India? What island, town, and settlements near the Strait of Malacca? How does Ceylon compare in size

with Ohio? What city is the capital? What cities on or near the Ganges? Which is the capital? What port on the western coast? What city north of Bombay? What one southeast? North of Delhi? On the eastern coast?

Eastern Turkestan, Afghanistan, Beloochistan, and Persia.—What two cities in Eastern Turkestan? What cities in Afghanistan? What city in Beloochistan? What desert? What deserts in Persia? What city is the capital? What city in the northwest? In the northeast? Near the centre? What sea-port has Persia?

Arabia.—What country north of the Arabian Desert? What city is its capital? What provinces of the Turkish Empire border on the Red Sea? What cities in Hedjaz? In Yemen? What is the sea-port of Mecca? What country in the southeastern part of Arabia? Its capital? What port on the Gulf of Aden? What island in the Persian Gulf?

Turkey.—What city in Europe is the capital of Turkey? What two cities in the southeast? What port on the Archipelago? What two cities northeast? What one southeast? What two cities in Palestine? What sea-port? What small lake or sea? What island west?

## XCVIII. REVIEW EXERCISES

Countries,—Where is it? How bounded? What is the capital?

						_	
Population.	2,500,000	000,083	4,000,000	2,000,000	5,000,000	4,000,000	673,000 16,500,000
Area in Sq. Miles,	76,000	596,000	250,000	107,000	686,000	1,020,000	673,000
Names,	Bokhara	425,000,000   East Turkestan	Afghanistan	Beloochistan	Persia	Arabia	Turkey
Population.	12,000,000 Bokhara	425,000,000	35,000,000		752,000 21,000,000 Persia.		1,580,000   240,000,000   Turkey
Area in Sq. Miles,	6,250,000	4,740,000	150,000		752,000		1,580,000
Names.	Asiatic Russia 6,250,000	Chinese Empire 4,740,000	an	am )	m	Burmah )	British India
Z	Asial	Chir	Japan	Anam	Siam	Bu	Bri

Gities.—In what part of the country? How situated?
—Irkoutsk? Tomsk? Omsk? Tobolsk? Barnaul? Tiumen? Maimatchin? Tiflis? Khiva? Bokhara? Pekin? Shanghai? Han-chau? Fuh-chau? Canton? Nankin? Hong Kong? Su-chau? King-teh? Tientsin? Lassa? Seout, or Kingkitao? Kashgar? Yarkand? Tokio, or Yedo? Kioto? Ozaka? Yokohama? Hue? Bankok? Mandalay? Saigon? Calcutta? Bombay? Madras? Benares? Singapore? Surat? Colombo? Hyderabad? Lucknow? Delhi? Patna? Cashmere? Herat? Cabul? Kandahar? Kelat? Teheran? Tabriz? Ispahan? Meshed? Bushire? Mecca? Medina? Jiddah? Hodeida? Mocha? Aden? Khap? Muscar? Smyrna? Damascus? Jerusalem? Beirut? Bagdad? Bassorah?

Islands.— 17there situated ?—Nova Zembla? New Siberia? Kurile Islands? Saghalin? Japan? Yezo? Hondo? Shikoku? Kiushiu? Formosa? Hainan? Ceylon? Cyprus?

Peninsulas,—From what part of Asia does it project?— Kamtchatka? Corea? Indo-China? Malay? Hindostan? Arabia? Turkey? Mountains.—IFhere are they?—Ural? Altai? Yablonoi?
Khin Gan? Peling? Nanling? Thian Shan? Kuenlun?
Kara Korum? Himalaya? Eastern Ghauts? Western
Ghauts? Hindoo-koosh? Elburz? Taurus? Caucasus?
Mount Sinai? Mount Ararat? Mount Fujiyama (v.)?

Seas, Gulfs, and Bays.—IV/lore is it?—Behring? Okhotsk? Japan? Yellow? Blue? China? Arabian? Red? Gulf of Tonquin? Aden? Siam? Persian? Bay of Bengal?

Straits.—Between what lands! What waters does it connect?—Behring? Channel of Tartary? Corea? Formosa? Malacca? Ormuz? Bab el Mandeb?

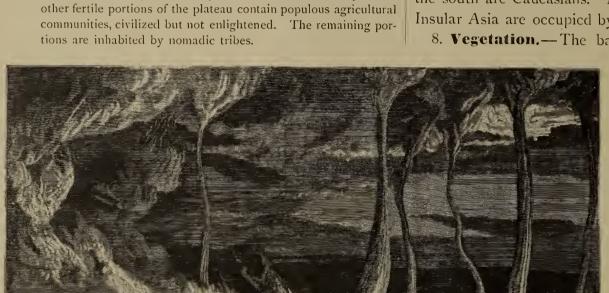
Rivers.—IVhere does it rise? In what direction does it flow? Into what body of water?—Obi? Irtish? Yenisei? Lena? Amoor? Hoang Ho? Yang-tse-Kiang? Cambodia? Brahmapootra? Ganges? Indus? Tigris? Euphrates? Amoo? Sihon?

In the south and southwest are immense grassy regions, called steppes, the home of barbarous nomadic Tartars, who subsist principally upon sheep and horses.

Between these belts is a vast ever-green forest, abounding with fur-bearing and other wild animals. Its cleared portions are inhabited by Europeans.

4. **Desert Asia** is a broad belt of high and dry plateaus, extending from the Red and Mediterranean seas almost to the shores of the Pacific Ocean. The plateau of Thibet is the highest in the world.

Nearly the whole of this belt excepting Arabia has great extremes of climate—hot and dry summers and severe winters. The belt of deserts is broken by the low and fertile plain of the Euphrates, once the seat of powerful empires. The mountain slopes and other fertile portions of the plateau contain populous agricultural communities, civilized but not enlightened. The remaining portions are inhabited by nomadic tribes.



SAND-SPOUTS IN THE DESERT.

5. **Peninsular Asia** is the most important division of the continent. It crosses and includes the western part of the Plateau Belt. Its southcastern peninsulas, Hindostan, Indo-China, Corea, with the projecting portion of China, contain at least one half of all the human race. The densest populations are found in the low plains.

Palestine, in the southwestern part of Turkey, is noted not only as the Holy Land of the Bible, but also for its physical peculiarities. It contains the Dead Sca. which is situated in a most remarkable depression of the earth. The surface of this sea is more than 1400 feet below the level of the Mediterranean. Its waters are intensely salt, and, except near the mouth of the River Jordan, which flows into it, contain no animal life.

East of the Indus River the climate is hot and moist; west of the Indus it is hot and dry.

Judaism, Christianity, Mohammedanism, Brahminism, and Buddhism, which are the chief religions of mankind, originated in Peninsular Asia.

6. **Insular Asia** includes the richest and most important archipelagoes in the world.

Note.—With the exception of Ceylon and Japan, Insular Asia will be described in a separate division, under the name of Malaysia.

7. Two races, the Mongol and the Caucasian, occupy nearly the whole of Asia. The Himalaya, Hindoo-koosh, and Caucasus Mountains separate them. Nearly all to the north of these mountains are Mongols; nearly all to the south are Caucasians. Malay Peninsula and parts of Insular Asia are occupied by the Malay race.

8. Vegetation.—The bamboo, aloe, ebony, and san-

dal-wood, among trees; the banana, date, fig, olive, tamarind, and cocoa, among fruits; cinnamon, cloves, and nutmegs, among spices; besides sugar, hemp, flax, rice, opium, tea, coffee, and cotton, indicate the great diversity of Asiatic vegetation.

9. **Animals.** — Among the chief animals of Asia are the tiger, elephant, tapir, buffalo, rhinoceros, orangoutang, arctic fox, pangolin, or ant-eater, zebra, and camel. Poisonous serpents, the crocodile, and other reptiles abound in southern Asia.

Our domesticated animals, the horse, ass, goat, sheep,

ox, hog, our common fowls, all of our grains excepting maize, and many of our most important fruits and vegetables, were derived from Asia.

Questions (I.)—1. What is said of the size of Asia? In what particulars does Asia surpass all other continents?—2. Into how many and what physical belts may it be divided?—3. What plain occupies the greater part of Arctic Asia?—4 What is Desert Asia? What is its extent? Which is the highest plateau?—5. Which is the most important division of the continent? What other belt does it partly include? What is said of the population? For what is Palestine noted? What remarkable sea does it contain? What is said of the surface of the Dead Sea? Of its waters?—6. What does Insular Asia include?—7. What two races occupy nearly the whole of Asia? By what are they separated? Where are the Mongols? The Caucasians? The Malays?—8. What is said of the vegetation?—9. Name the principal animals of Asia.

(II.)—3. Between what limits does the Siberian Plain extend? What is the character of its climate? Of what does it consist? Describe the northern belt. Southern belt. Middle belt.—4. What is the climate of Desert Asia? By what is the belt of deserts broken? By whom are the plateaus inhabited?—5. What is the climate east of the Indus River? West? What religions have originated in Peninsular Asia?—9. What animals were derived from Europe? What other things?

[For Sections XCVII. and XCVIII., see p. 103.]



### POLITICAL ASIA.

### XCIX.

### DESCRIPTION.

- 1. **Asiatic Russia.**—Asiatic Russia covers more than one third of Asia. It includes Siberia, Russian Turkestan, and Georgia or Trans-Caucasia, and extends from Corea to the Black Sea.
- 2. **Siberia.**—Among the resources of Siberia are furs from the forest belt; gold, chiefly from East Siberia; copper, iron, and gold from the Ural; and fossil ivory from the islands of New Siberia.

The longest inland commercial route on the globe extends from Pekin, through Maimatchin, Irkoutsk, Tomsk, and Tobolsk, to Moscow and St. Petersburg.

The population of Siberia is about 4,000,000, mostly occupying the river-valleys in the south. A large part are exiles or descendants of exiles from European Russia, whence about 12,000 criminals are banished every year. The worst are condemned to labor in the mines. Most of the others take their families with them, and receive small grants of land.

Irkoutsk is the principal city. Tobolsk, Tomsk, Omsk, Barnaul, and Tiumen are important commercial towns.

- 3. Amooria, a province of Siberia, was recently acquired from China.
  - 4. Russian Turkestan.—Russian Turkestan includes

the greater part of the country between the Caspian Sea and the Altai Mountains. It contains a number of districts called khanates, and several populous cities. Many of these khanates have been recently annexed by Russia. The native rulers are continued, but only as vassals of Russia. The inhabitants are Mohammedan Tartars.

- 5. **Georgia**, or Trans-Caucasia, has a population nearly as large as that of Siberia. The people are said to be the handsomest in the world. Tiflis is the capital, and has a great caravan trade with Persia.
- 6. **Chinese Empire.**—The Chinese Empire includes China, the dependent provinces of Mantchooria, Mongolia, and Thibet, and the tributary kingdom of Corea.

The Chinese Empire is one of five great governments which together cover more than half of the land surface of the globe. These are, in the order of their area, the British Empire, the Russian Empire, the Chinese Empire, the United States, and Brazil.

7. **Population.**—The total population of the empire is estimated at 425,000,000, and consists chiefly of Mongols. The dependent provinces contain only about 26,000,000; all the rest are in China, five sixths of them being in the eastern half of it. This is the densest population in

the world. Nearly three millions live in boats and in floating gardens and houses on rafts in the rivers and canals.

- 8. **Government and Religion.**—The government is an absolute monarchy. The prevailing religion is Buddhism.
- 9. **Occupations.**—Agriculture, which is regarded as the noblest of employments, is the chief occupation of the Chinese. The implements used are very rude and simple.



STREET IN CHINA.

- 10. **Productions.**—Rice, tea, cotton, and silk are the great staples, and furnish the principal food, drink, and clothing. All the manufactures are the products of hand labor; those of silk and porcelain are the most valuable.
- 11. **Commerce.**—The domestic commerce of the Chinese Empire is unparalleled in extent. Its chief wateroutes are the large canals and the navigable rivers and lakes. The mountains, steppes, and deserts of the interior plateaus are crossed by caravans of camels. A great caravan trade with Russia has its depot at Maimatchin, where tea is exchanged for furs, woollens, etc. The extensive maritime commerce is in the hands of foreigners.

The principal exports are tea and raw silk. The chief imports are cotton and woollen goods, opium, and wheat.

12. **Education.**—Education is compulsory. All adult males are able to read and write, and possess a knowledge of the elements of arithmetic.

Government officers of all grades below the emperor are selected by means of a public competitive examination to test their scholarship, and may be of the most humble parentage.

The Chinese are not surpassed by any people in the world in frugality and industry and in skill in their various occupations. They have possessed the mariner's compass and practised the arts of printing, silk-making, and paper-making from time immemorial. They were also very early acquainted with the manufacture of gunpowder, but did not make use of it in war.

The people are unwarlike. When not on duty the soldiers are employed in useful trades.

Among the more important public works are excellent roads, great canals, and the famous wall, more than 1200 miles long, completed B.C. 211, to keep the Mongol Tartars out of China.

13. No other country contains so many great and walled cities as China. Their population is variously reported, and changes rapidly.

Pekin is the capital and largest city. Shanghai, the chief port, is the principal depot of the great basin of the Yang-tse-Kiang, and has three fourths of the foreign commerce. Han-chau, a triple city, is the great depot of internal trade. Canton is the second city in foreign trade. Fuh-chau is the chief place of shipment of black tea. Nankin, once the populous capital of China, is now nearly all in ruins. Among other places are Seoul, or King-kitao, the capital of Corea; Maimatchin, a depot of the Russian trade; and Lassa, the capital of Thibet and the residence of the Grand Lama, or Buddhist chief-priest.

- 14. Japan.—The Empire of Japan consists of four large mountainous islands and many smaller ones.
- 15. **Productions.**—The agricultural and manufactured products and the exports are similar to those of China.
- 16. Government.— The government of Japan is a constitutional monarchy. The emperor is called the Mikado. After centuries of nearly complete exclusion, foreigners have recently been admitted to Japan. Since that time the Japanese have been quick to appreciate and adopt the arms, uniform, naval and military systems, lighthouses, steam power, and telegraph of Europeans. They surpass the Chinese in intelligence, and equal them in mechanical skill. They are of the same Mongol race, and have similar religious beliefs, but differ greatly in language and political institutions. In many respects their civilization compares favorably with that of any other nation. The elementary education of males is universal, systematic, and compulsory.

17. Tokio, known as Yedo until 1868, is the national capital and largest city, and has an extensive commerce; its port, Yokohama, is the chief depot of the foreign trade; Kioto was formerly the capital and the residence of the emperor; Ozaka, the second city, is the principal port of the domestic commerce of the empire.

Questions (I.) - 1. How much of Asia is occupied by the Russian Empire? What countries does it include? What is its extent?-2. Name the principal resources of Siberia, and whence derived. What long route of inland commerce, and through what cities? What is said of Irkoutsk? What other towns? -3. What is said of Amooria?-4. Of Russian Turkestan? By whom are these countries governed? Who are the inhabitants?-5. What is said of the population of Georgia? What is said of the Georgians? Of Tiflis?-6. What does the Chinese Empire include? Name in their order the five most extensive governments of the globe. What part of the land surface do they cover?-7. What is the total population of the empire? Of what race are they? How is the population distributed? What is said of the

water population?—8. What form of government in China? What is the prevailing religion?—9. What is the principal occupation? How is it regarded? What is the character of the implements used?—10. Name the staple productions. What do they furnish? What is said of manufactures? Which are the most valuable?—11. What is said of the domestic commerce of China? What are its water-routes? Where are caravans employed? How is the trade with Russia conducted? Which are the principal exports? The principal imports?—12. What is said of education?—13. What is said of the cities of China? Of their population? What is said of Pekin? Shanghai? Han-chau? Canton? Fuh-chau? Nankin? Seoul or Kingkitao? Maimatchin? Lassa?—14. Of what does the Empire of Japan consist?—15. What is said of the agricultural and manufactured products and the exports?—16. Of the government? What is the emperor called? What has been the policy of the Japanese towards foreigners? What European inventions have the Japanese adopted? How do the Japanese compare with the Chinese? What is said of their civilization? Of education?—17. For what is Tokio or Yedo noted? Yokohama? Kioto? Ozaka?

(II.)—2. What is the population of Siberia? Where located? What is said of the exiles?—12. How are the government officers of China selected? For what are the Chinese distinguished? What arts have they long practised? What is said of the character of the Chinese? Of their public works?

### C.

### BRITISH INDIA AND INDO-CHINA.

- 1. **British India.**—British India includes nearly all Hindostan and most of the western coasts of Indo-China. It is the richest and most important dependency ever possessed by any nation.
- 2. **Surface.** Hindostan consists of the Himalayan highlands in the north, the plateau of the Deccan in the south, and the great plain between them.



being about four fifths as many as in all Europe. Six sevenths are Hindoos, whose religion is Brahminism; most of the remainder are either Buddhists or Mohammedans. There are also Parsees, or Persian fire-worshippers, Jews, and European Christians, and many whose religious belief is the grossest heathenism. The greater part of

the Europeans are in the British army of India.

The Hindoos have possessed a wonderfully rich poetical, philosophical, and religious literature from times long before the Christian era. British India is rapidly adopting the civilization of Europe.

- 4. **Government.**—The country is under the control of a Governor-General and a Supreme Council appointed by the British Government. The Queen of England is "Empress of India." The capital is Calcutta. The rich and populous island of Ceylon is a separate colony.
- **5. Productions.**—The principal vegetable productions are rice and other grains, cotton, sugar, opium, indigo, jute, and spices. Rice is the principal article of food, and cotton the chief material for clothing.
- 6. **Commerce.** The maritime commerce is chiefly with Great Britain and China, and is controlled by native and British merchants. The routes of an extensive caravan trade radiate from Hindostan to all the countries of Central and Western Asia. Among the most important articles of export are cotton, opium, sugar, jute, indigo,

fine fabrics of silk and cotton, and costly Cashmere shawls. Ceylon is noted for its export of coffee and cinnamon.

- 7. Railways, etc.—The principal cities are connected by railways, by means of which the cotton and other produce of the interior are brought to the ports. Nearly all the railways and telegraph lines of Asia are in British India. Steamboats ply on the principal rivers.
- 8. Calcutta, the capital of British India, is the chief commercial centre of Hindostan; Bombay is the largest city and the chief cotton port; and Madras is the centre of an extensive trade. Benares, the chief seat of Hindoo learning and religion, is the most sacred city of Hindostan. Among other important cities are Lucknow, Patna, Hyderabad, Delhi, Surat, and Cashmere.
- 9. Indo-China.—Indo-China includes Burmah, Siam, Anam, and many smaller independent states. All have despotic governments. The southeastern coast is called Cochin China. The interior of these countries is but little known to Europeans.
- 10. **Inhabitants.**—The inhabitants resemble the Chinese in race, religion, and civilization.
- 11. **Commerce.** The foreign commerce is chiefly with China and by inland routes. The productions and exports are similar to those of Hindostan.
- 12. Bankok, a large part of which consists of houses built on floating rafts of bamboo, is the capital of Siam and the largest city in the peninsula; Mandalay is the capital of Burmah, and Hue the capital of Anam.
- 13. The British possess parts of the west coast of the Malay peninsula, and the island and fortified city of Singapore, one of the most important ports of the East. It controls the Strait of Malacca, the chief gateway of Asiatic maritime commerce, and is the great depot for tin, which is obtained from neighboring mountains and islands. The French possess an important province in Indo-China; Saigon, a fortified port on the southern coast, is its capital.

Questions (I.)—1. What does British India include? What is said of it?—2. Describe the surface of Hindostan.—3. How many inhabitants in British India? What portion are Hindoos? What is their religion? What other religions are found in India? With what are most of the European residents connected?-1. By whom is the country governed? What city is the capital? What island is a province of British India?-5. What are the principal vegetable productions? The chief article of food? Of clothing?-6. With what countries is the maritime commerce? What is said of the caravan trade? What are the most important exports?-7. What is said of the means of communication?—8. For what is Calcutta noted? Bombay? Madras? Benares? Name other important cities .- 9. What countries are included in Indo-China? What is the character of their governments? What name is given to the southeast coast? What is known of the interior?-10. What is said of the inhabitants?-11. Of the commerce? Of the productions and exports?-12. For what is Bankok noted? Mandalay? Hue?-13. What and where are the British possessions? Their port? Why important? Of what is it a depot? What other European nation has possessions in Indo-China? What and where is the capital?

(II.)—1. What two valleys does it contain? What is the character of each?—3. What is said of Hindoo literature? Of the civilization of British India?

### CI.

### PERSIA, AFGHANISTAN, BELCOCHISTAN, ARABIA, AND TURKEY.

- 1. **Persia**, **Afghanistan**, and **Beloochistan**.—Persia, Afghanistan, and Beloochistan occupy the desert plateau of Iran, between the valleys of the Tigris and the Indus. Persia is the largest and most important. They are traversed by many high mountain ranges.
- 2. The high plateaus of the central region contain broad steppes and deserts, with many rich oases which determine the caravan routes.
- 3. Beloochistan is mostly a barren wilderness. Afghanistan is of commercial and military importance because it contains the chief routes from India to Western Asia.
- 4. **Governments.** The governments are extremely oppressive. The supreme ruler of Persia is called the Shah. Afghanistan is noted for its frequent and cruel civil wars; the monarch is called the Khan. Beloochistan consists of a number of small states, under the headship of the Khan of Kelat.
- 5. **Inhabitants.**—The inhabitants are of various Mohammedan races, and live mostly in towns and villages. The deserts and oases have a large nomadic population, mostly robber hordes of Arabs, Turks, and Afghans. The Persians, on account of their polite manners and comparatively high civilization, are sometimes called the French of Asia.
- 6. **Exports.** Persia exports silks, woollens, shawls, carpets, and cotton, silk, and wool.
- 7. The chief cities of Persia are Teheran, the capital; Ispahan, once one of the most splendid cities of the East, but now fallen into decay; Tabriz, noted for its great trade with Russia; Bushire, the principal port on the Persian Gulf; and Meshed, the Holy City of Persia.

Kelat, the capital and chief town of Beloochistan, and Cabul, the capital and largest city of Afghanistan, Herat, and Kandahar are important as military stations and as depots of the great caravan routes.

- 8. Arabia.—Arabia is about one third as large as the United States. It consists of three regions: a great plateau, having many large and fertile valleys, occupies the interior; surrounding this is a broad belt of deserts, covering more than one third of the peninsula; along the coasts is a low and narrow sandy plain containing a few fertile districts.
- 9. **Government.**—The interior contains several independent states governed by despots called sultans.

About five sixths of the population live in towns and villages; the remainder are tribes of plundering nomads, called Bedouins. The heads of the tribes are called sheiks. They are nearly all subject to the sultans.

The principal state is the Nedjed, which occupies the greater part of the interior plateau. Riad is the capital and the residence of the Sultan. Muscat, the capital of Oman, is the largest city of eastern Arabia.

10. Yemen and Hedjaz, on the western coast, are provinces of the Turkish Empire. Yemen is very fertile. Hedjaz contains the holy cities of Mecca and Medina.

Mecca is the birthplace of Mohammed, and contains the Kaaba, the most sacred of mosques. It is annually crowded with caravans of pilgrims from all parts of the Mohammedan world. An immense amount of trade is at the same time carried on. The camel, "the ship of the desert," is the principal beast of burden. The horses of Arabia are famous for speed and beauty.

11. Besides the cities already mentioned are Sana; Jiddah, the port of Mecca; Mocha, noted for its coffee; and Aden, belonging to Great Britain.

The most valuable pearl fishery in the world is at Bahrein Island, near the Strait of Ormus.

- 12. **Asiatic Turkey.**—Asiatic Turkey is the most important part of the Ottoman Empire.
- 13. Government.—It is divided into provinces, which are governed by pachas appointed by the Sultan.

Turkey was for centuries one of the richest regions of the world. The arbitrary and oppressive nature of the gov-

ernment has long since reduced it to utter poverty and degradation. Provinces once flourishing and densely populated are now dry and solitary wastes.

- 14. Commerce.—Maritime commerce is in a low condition. The caravan trade connects the chief cities with Arabia and Persia. There are few roads. The Lebanon Mountains in the southwestern part produce large quantities of raw silk.
- 15. The principal cities are Smyrna, the chief commercial city of Western Asia, noted for its exportation of figs and other dried fruits; Bagdad, the centre of the caravan trade with Arabia and Persia; Bassorah,

the chief port, near the Persian Gulf; Damascus, a depot of the caravan trade with Persia, and said to be the oldest city in the world; Beirut, the sea-port of Damascus; and Jerusalem, the sacred city of Christians, Jews, and Mohammedans. Aleppo, Brusa, and Trebizond also are important cities.

Japan, China, and India have possessed extensive commerce, books, and definite systems of religion and government from the earliest ages. For many centuries the social condition of these countries remained unchanged. Important and rapid changes are now taking place in consequence of the adoption and introduction of the railway, the telegraph, and other practical applications of the sciences and arts of Europe.

Questions (I.)—1. Where are Persia, Afghanistan, and Beloochistan? Which is the most important? By what are they traversed?—2. What is the character of the central region?—3. Of Beloochistan? Why is Afghanistan important?—4. What kind of government have these countries? What is the title of the Persian monarch? For what is Afghanistan noted? What is the monarch called? Of what does Beloochistan



CEDARS OF LEBANON

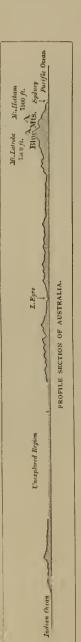
consist? 'Under what leadership?—5. What is said of the inhabitants? Of the population of the deserts and oases? Of the Persians?—6. What are the exports of Persia?—7. For what is Teheran noted? Ispahan? Tabriz? Bushire? Meshed? Kelat? What other caravan depots?—8. How large is Arabia? Of what does it consist? What is the interior? What surrounds it? What surrounds the whole?—9. What does the interior contain? By whom governed? Which is the principal state? Where is it? What city is the capital? What is said of Muscat?—10. Of Yemen and Hedjaz?—11. Name some other cities. For what is Bahrein Island noted?—12. What is said of Asiatic Turkey?—13. How is it divided? By whom are the provinces governed?—14. What is said of the maritime commerce? Of the caravan trade? Of the roads? Where is silk produced?—15. What is said of Smyrna? Of Bagdad? Of Bassorah? Of Damascus? Of Beirut? Of Jerusalem? What other important cities?

(11.)—9. What part of the population is not nomadic? Who are the Bedouins? To whom are the Bedouins subject?—10. For what is Mecca noted? What is said of the pilgrims? Of trade? Of the camel? Of Arabian horses?—13. What was once the condition of Turkey? What is its present condition?—15. What is said of the social condition of Japan, China, and India? What changes are now going on?

### OUESTIONS ON THE MAP. CII

Malaysia. -- What archipelago southeast of Asia? What seas in What group of islands northeast of Borneo? Name the What city on Luzon? On Mindanao? What island west of Borneo? What city and island in the Strait of Malacca belong to Great Britain? What three ports in Sumatra? What island has it? To what group do Sumatra and Java belong? What island Malaysia? What straits? Which is the largest island? What cities between Sumatra and Borneo? South of Borneo? What three ports east of Borneo? What group east of Celebes? in Borneo?

city? Which is larger, Tasmania or Ohio? What colony east of Tasin South Island? What city is the capital of the colony? What other volcano in Hawaii? What group east of the Friendly Islands? (See small map and Map of Western Hemisphere.) Which is the largest? arates them? Which has many volcanoes? What range of mountains Polynesia,-What name is given to the small islands scattered donia? To what country do they belong? What group south of the What colony south of Victoria? What is the capital? What other mania? Name the chief islands of New Zealand. What strait sepover the Pacific? (Polynesia.) What islands northeast of New Cale-Tropic of Cancer? (See small map and Map of Western Hemisphere.) Name the three largest. What city is the capital? city on North Island? What city on South Island?



Melanesia.--What group of islands east of Malaysia? Which is the largest island of Melanesia? Which is a French colony?

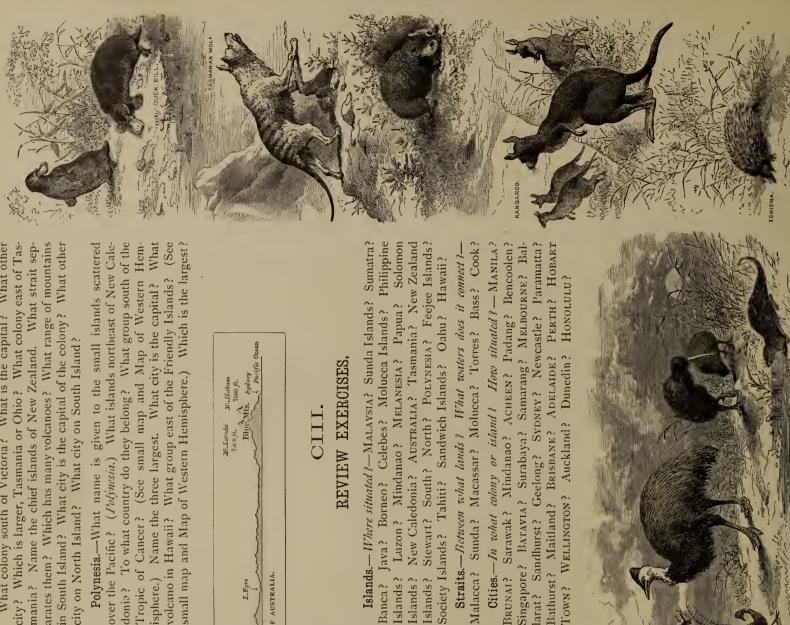
What city is the capital? What colony northwest of Victoria? What est? What gulf on the north? What two on the south? What waters surround Australia? Name the colonial divisions of the continent. Which colony is in the southeast? What river forms part ital? What city north of Melbourne? West? Southwest? What city near Newcastle? What colony north of New South Wales? Australia,-In which direction is the Australian Continent longof its boundary? What mountains in Victoria? What city is the cap-Name the two What city is the capital? What city west of Sydney? Northwest of Paramatta? What other sea-port? What lakes in it? What city is the capital? What country north of South North of Alexandra Land? What colony in the western part of the continent? What range of mountains near the western colony north of Victoria? Which is its largest river? coast? What city is the capital? chief ranges of mountains. Australia?

Islands.— Where situated ?—Malaysia? Sunda Islands? Sumatra? Banca? Java? Borneo? Celebes? Molucca Islands? Philippine Luzon? Mindanao? MELANESIA? Papua? REVIEW EXERCISES Islands? Islands?

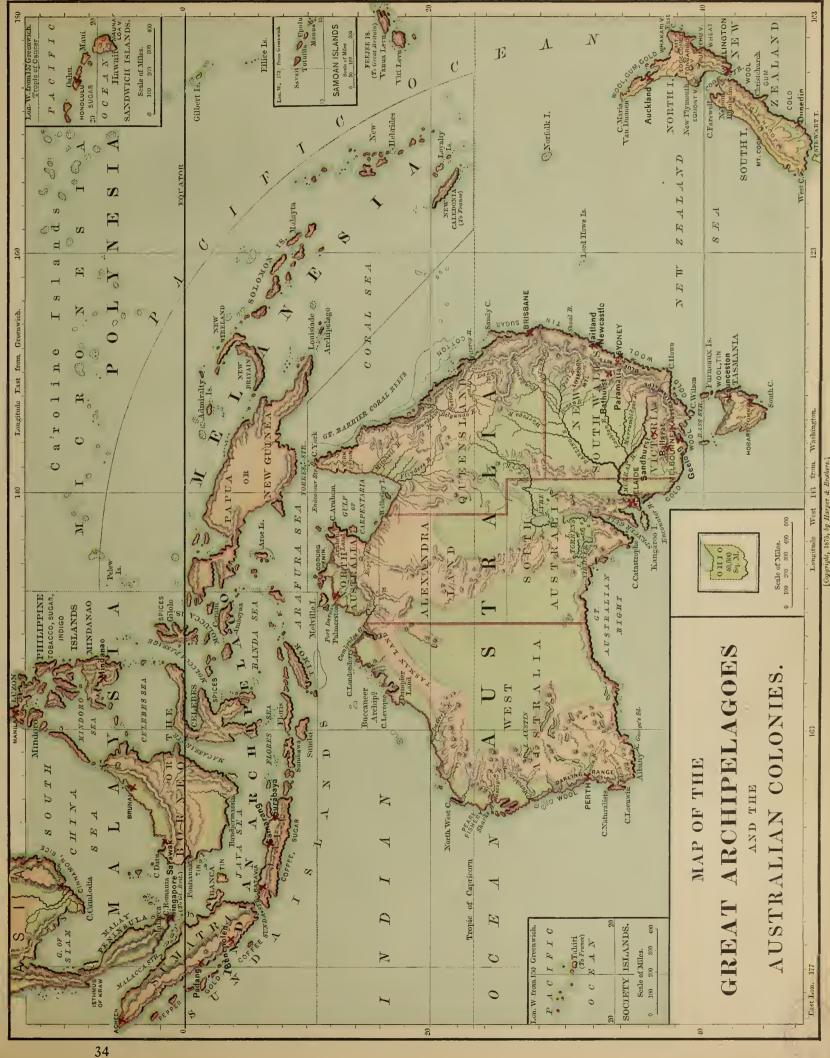
Malacca? Sunda? Macassar? Molucca? Torres? Bass? Cook? Straits.—Between what lands? What waters does it connect?—

Islands?

Cities.—In what colony or island? How situated?—MANILA? Bathurst? Maitland? BRISBANE? ADELAIDE? PERTH? HOBART Sydney? Newcastle? Paramatta? Singapore? Batavia? Surabaya? Samarang? Melbourne? Bal-Town? Wellington? Auckland? Dunedin? Honolulu? Sarawak? Mindanao? ACHEEN? larat? Sandhurst? Geelong? BRUNAI?









### OCEANICA.

### CIV. DESCRIPTION.

- 1. **Oceanica.**—Oceanica includes all the islands of the Pacific Ocean south of the Tropic of Cancer. It consists of the great archipelagoes of Malaysia and Melanesia, the continent of Australia, together with the islands of Tasmania and New Zealand, and Polynesia.
- 2. **Malaysia.** The population of Malaysia is about 27,000,000, or nearly five times as much as that of all the rest of Oceanica. The people are mostly Mohammedan Malays, and are brave, intelligent, and in part civilized. The climate is similar to that of the West Indies.
- 3. The Philippine Islands, the most northern group of Malaysia, belong to Spain. The capital, Manila, is a great emporium; its exports include rice, sugar, tobacco, cigars, Manila-grass, cordage, and hats.

Java, Celebes, the Moluccas, many smaller islands, and parts of Sumatra and of Borneo belong to the Netherlands, and are called the Dutch East Indies. They are rich in spices and tin, and, next to British India, are the most magnificent of colonial possessions. Java, the most important of these islands, contains about sixteen millions of inhabitants. Batavia, the capital and the chief commercial depot, exports the tin of Borneo and Banca, the

pepper of Sumatra, the cloves, nutmegs, and other spices of the Moluccas and Celebes, and other tropical products.

- 4. **Melanesia.**—Melanesia, or "Land of the Blacks," is a long group of islands extending from New Guinea to New Caledonia. It is inhabited by a cannibal, negrolike race called Papuans.
- 5. Australia.— The continent of Australia and the islands of Tasmania and New Zealand are British possessions. The area of Australia is nearly equal to that of the United States, excluding Alaska. Its colonial divisions are Victoria, New South Wales, Queensland, West Australia, and South Australia, with its dependencies Alexandra Land and North Australia. Victoria, the most important, equals in area all the New England States, together with New Jersey, Delaware, and Maryland.
  - The greater part of the interior of Australia is yet unexplored. It probably consists mainly of low desert plains. The continent is nearly encircled by a rim of low mountains, the highest being on the eastern side. Between these and the almost unbroken coasts is a narrow belt of lowlands. There are but few rivers.
- 6. **Population.**—The European population is about one and three quarter millions, the greater part being in Victoria and New South Wales. The original savage inhabitants are nearly exterminated.
  - 7. Government.—The colonics are politically inde-

pendent of one another, and are governed by representatives chosen by universal suffrage, and by executive officers appointed by the Crown.

- 8. Climate.— The northern part of Australia has a tropical climate; the southern part is subject to sudden and great changes of temperature, and to an irregular succession of floods and droughts.
- 9. **Vegetation.** The trees, which are chiefly evergreens, stand wide apart, have few leaves, and cast little shade. Some exceed in height the great trees of California.
- 10. **Animals.** Many of the native quadrupeds are pouched animals, some being as tall as a man, others no larger than a rat. Among the most singular are the kangaroo, the wombat, and the duck-bill; the last has webbed feet and a broad bill like a duck. Among the birds are the apteryx, which has no wings, and the lyrebird, the tail-feathers of which resemble a harp.
- 11. **Productions.**—Australia produces wheat, indigo, cotton, sugar, coffee, tin, and copper. The scattered but rich grasses support many millions of sheep and cattle. It is the chief wool-growing country in the world, and is second only to the United States in the production of gold.
- 12. **Commerce.**—Nearly all the maritime commerce is with Great Britain, and is carried on by steamers. Railways and telegraph lines connect the two largest cities, Melbourne, the capital of Victoria, and Sydney, the capital of New South Wales, with other towns. Other important towns are Ballarat, Geelong, Paramatta, Adelaide, Brisbane, and Perth. The chief exports are wool, cotton, wheat, gold, and copper.

The Australian Colonies and New Zealand, though distant nearly half of the circumference of the globe from Great Britain, are in telegraphic communication with that country. A land line from the principal cities crosses the middle of the continent to the northwestern coast, and is continued by an ocean cable to British India. Other lines and cables connect this latter country with London. A line of ocean steamers, plying between Australia, the Feejee and Sandwich Islands. and San Francisco, connects the commercial system of the United States with that of Australia.

13. Tasmania and New Zealand are very mountainous. The productions of Tasmania are similar to those of Australia. The capital is Hobart Town.

New Zealand is a little larger than Great Britain. Gold and New Zealand flax are the chief exports. Wellington is the capital.

14. **Polynesia.**—Polynesia consists of many thousands of small oceanic islands situated in the Pacific Ocean and within the Torrid Zone.

These islands are mostly in parallel chains, and appear to be the tops of mountain ranges whose bases are deep in the ocean. If the mountain is entirely below the sea, the island usually consists of an irregular oval ring or reef of coral, enclosing a lagoon, having one or more openings to the sea, and crowned with cocoanut-palms and bread-fruit and other trees. Such an island is called an atoll; many hundreds of atolls sometimes constitute a single group.



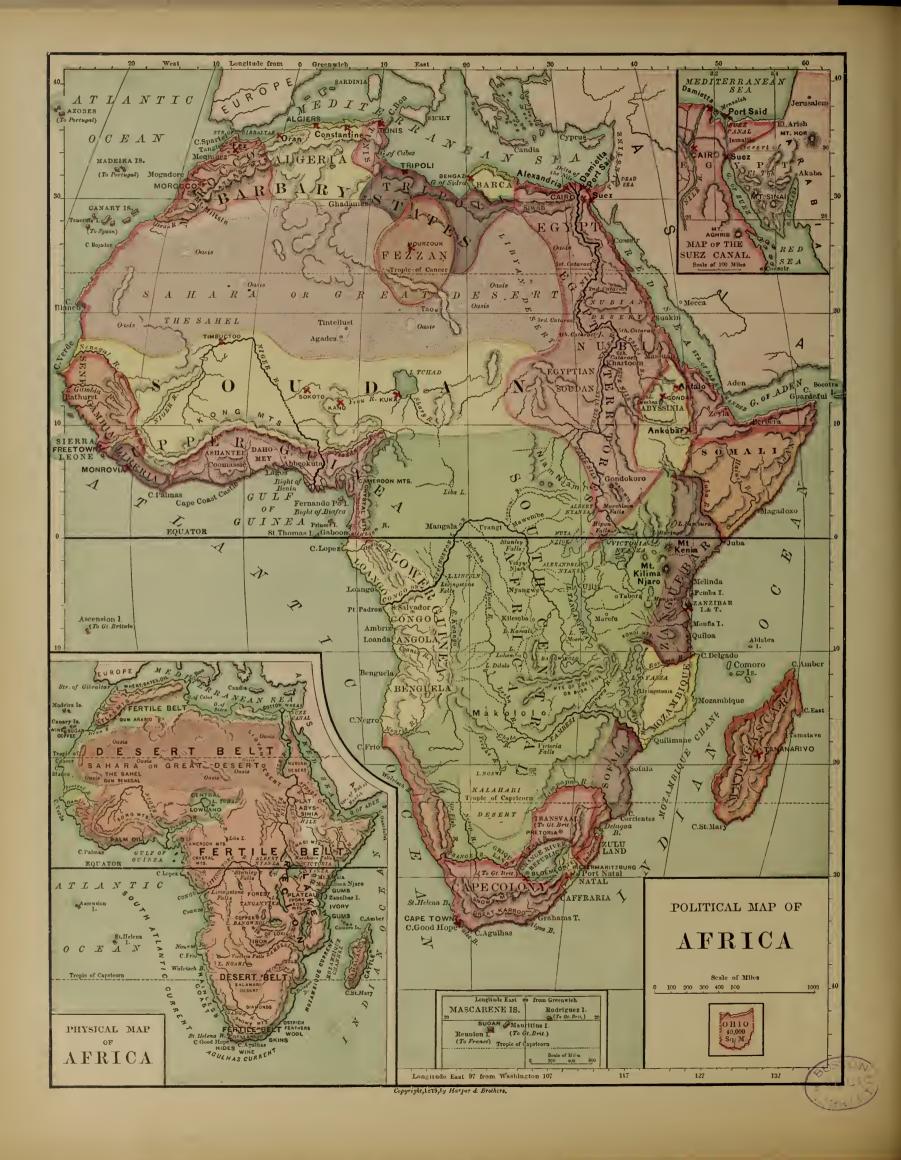
CORAL ATOLL

- 15. The Polynesians are mostly Malays and Pagan savages. The Sandwich Islands, Tahiti, the Feejee Islands, and the Samoan Islands have become Christian states.
- 16. The Sandwich Islands, the most important group, produce sugar and cotton of an excellent quality. They contain many volcanoes; one of these, Mauna Loa, has the largest crater in the world; its black lava wall encloses a lake of fire. The government is a limited monarchy. The capital, Honolulu, is an important port.

Note.—The trade of the United States with the countries on the shores of the Pacific Ocean and with the islands scattered over its surface is rapidly growing in importance. From some of these islands the exports are already large in quantity and of great value. No other equal area of land surface on the globe is capable of yielding a larger amount of sugar, cotton, and other tropical products, and no people are so well situated to engage in this commerce as those occupying the western coast of the United States.

Questions (I.)—1. What does Oceanica include? What great archipelagoes? What continent? What islands? What other division?—2. What is the population of Malaysia? Of what race and religion? Of what character and social condition? What is said of the climate?—3. What islands belong to Spain? What is the capital? What is said of it? What are the exports? What islands belong to the Netherlands? What is said of them? Of Java? Of Batavia?-1. What is Melanesia? By whom inhabited ?-5. To what country do Australia, Tasmania, and New Zealand belong? What is the area of Australia? Name its colonial divisions. What is said of the area of Victoria ?- 6. What is said of the European population of Australia? Of the original inhabitants?-7. How are the colonies governed?-8. What is the climate of Australia?-9. What is said of the trees of Australia?-10. Of the native animals? -11. Of the productions? Of the sheep and cattle? Of wool? Of gold?-12. How is the maritime commerce conducted? With what country? What are the means of internal communication? Name the important towns. What are the chief exports?-13. What is the character of the surface of Tasmania and New Zealand? What are the productions of Tasmania? Its capital? What is the size of New Zealand? What are the chief exports? What city is the capital?—14. Of what does Polynesia consist?—15. Of what race are the Polynesians? In what social state? What three important exceptions?—16. What is said of the Sandwich Islands? Of their volcanoes? Government? The capital?

(II.)—5. What is said of the interior of Australia? Of the mountains? Of the lowlands? Of the coasts? Of the rivers?—12. How do the Australian colonies communicate with Great Britain? How is the commercial system of Australia connected with that of the United States?—14. How are the islands arranged? What do they seem to be? What is an atoll?





### CV.

### QUESTIONS ON THE MAP.

In what zone is most of the continent of Africa? (See Physical Map.) What waters surround it? What cape at the northern extremity? At the eastern? The southern? The western? Near Cape Agulhas? What great island is nearly parallel to the eastern coast? What channel between them? What mountains parallel to the southern coast? To the Gulf of Guinea? To the Mediterranean Sea? What desert is crossed by the Tropic of Cancer? By the Tropic of Capricorn? What river in the northeastern part of Africa? Name its three principal branches. What plateau is partly drained by the Blue Nile? What lakes by the White Nile? Name other lakes in the Lake Region. What river flows into the Mozambique Channel? What rivers flow into the Atlantic Ocean? What islands northwest of Madagascar? East of Madagascar? (Mascarene Islands.) Name the two largest. What solitary islands in the Atlantic Ocean south of the Equator?

What general name is given to the countries forming the northwestern border of Africa? (See Political Map.) Name the Barbary States. What country occupies the northeastern part of Africa? What province south? What country southeast of Nubia? Southwest? West of Madagascar? North of Mozambique? What three British colonies in Southern Africa? What republic northeast of Cape Colony? What general name is given to the western coast north of the Equator? South of the Equator? What countries west of Upper Guinea? What name is given to the coast north of Sierra Leone? To the country south of Sahara?

What city is the capital of Egypt? At the western mouth of the Nile? At the eastern mouth? What name is given to the triangular

piece of lowland having Cairo, Alexandria, and Damietta at the angles? (The Delta, from its resemblance to Δ, the Greek letter D.) What towns on the Suez Canal? What three cities in Abyssinia? What is the capital of Zanguebar? On what island? What is the capital of Madagascar? Name the capitals of the three British colonies. What town in Liberia? In Sierra Leone? What city is the capital of Morocco? What city northeast of Morocco? What three cities in Algeria? What is the capital of Tripoli? Of Tunis? Of Fezzan? Barca? What four cities in Soudan?

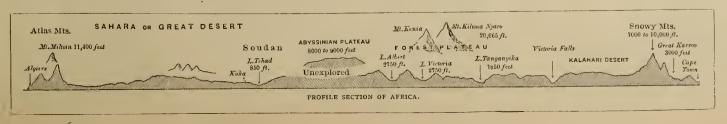
### CVI.

### REVIEW EXERCISES.

Principal Divisions and Subdivisions. — Where is it? — Barbary States? Morocco? Algeria? Tunis? Tripoli? Barca? Fezzan? EGYPT? Nubia? Egyptian Soudan? Abyssinia? Zanguebar? Mozambique? Cape Colony? Natal? Transvaal? Orange River Republic? Upper Guinea? Senegambia? Sierra Leone? Liberia? Lower Guinea? Sahara? Soudan?

Rivers. — Where does it rise? In what direction does it flow? Into what body of water?—Nile? White Nile? Blue Nile? Atbara? Zambesi? Orange? Congo? Niger?

Cities. — In what part of the country? How situated? — CAIRO? Alexandria? Damietta? Port Said? Suez? Gondar? Antalo? Ankobar? Zanzibar? Tananarivo? Bloemfontein? Cape Town? Pietermaritzburg? Pretoria? Monrovia? Free Town? Morocco? Fez? Algiers? Constantine? Oran? Tunis? Tripoli? Mourzouk? Bengazi? Timbuctoo? Kano? Sokoto? Kuka?



SACRED: IBIS



PHYSICAL AFRICA

CVII.

### DESCRIPTION.

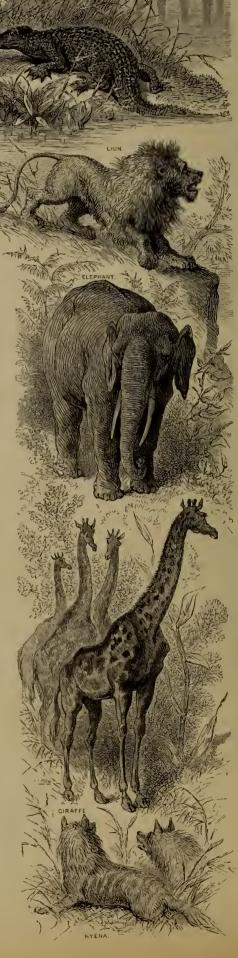
1. Africa contains about one half of all the land in the Torrid Zone. It has a larger proportion of plateau surface, more unbroken coasts, a hotter and dryer climate, more extensive deserts, and more numerous and gigantic animals than any other of the six continents. It also has a greater number of barbarian inhabitants than all the rest of the world together.

The northern tropic passes through the centre of the Great Desert, and the southern tropic through the Kalahari Desert. Between these desert belts is a broad fertile region, most of it being deluged with tropical rains during several months of the year. This belt contains the greater part of the population and of the vegetable and animal life. A smaller fertile belt is found in the Atlas region, and another in Cape Colony. The Great Karroo, in the southern belt, is a low plateau, similar in character to the llanos and pampas of South America. The continent has therefore five parallel physical belts, three of them broad tracts of fertile land, and two intermediate ones of desert.

2. **Surface.**—Nearly the whole surface consists of broad, low plateaus. The edges of the continent are partly bordered and its surface broken by short mountain ranges.

The highest plateau is that of Abyssinia. The longest mountain ranges lie along the eastern coast. These mountains contain the snow-covered peaks Kilima Njaro and Kenia, the highest in Africa. The Atlas Mountains, near the Mediterranean, and the Kong, near the Gulf of Guinea, are the only other important ranges.

3. A narrow strip of lowland extends between the mountain borders and the coasts and



CROCODILE

along the southern base of the Atlas. The only other lowland lies near the centre of the continent.

4. The coast is remarkable for the deadliness of the climate and for the small number of islands, peninsulas, gulfs, and navigable rivers.

The entire northern coast has but one large river, the Nile; the eastern, the Zambesi; the western, the Niger, the Congo, and the Orange. A group of great fresh-water lakes lies upon the east side of the continent, some of which are connected with the Nile. Lake Tchad lies in the central lowland.

5. **Vegetation.**—Except in the middle belt, Africa is comparatively deficient in vegetation. The tropical forests, though covering a large part of the central belt, are less dense and less extensive than those of South America. Among the most useful trees are the oilpalm of Guinea, the date-palm of the Barbary States

and the oases, and the acacia, which supplies the gumarabic of commerce.

6. **Animals.**—Among the animals of the central belt are the elephant, rhinoceros, hippopotamus, giraffe, chimpanzee, and gorilla; in other parts of the continent are the gnu and other antelopes, the zebra, and the hyena. The ostrich and the sacred ibis are remarkable among birds, and the crocodile and the horned viper among reptiles.

Questions (I.)—1. What part of the land of the Torrid Zone is in Africa? For what is Africa remarkable among the continents?—2. What is the character of the surface of Africa?—3. Where are the lowlands?—4. What is said of the coast?—5. Of the vegetation?—6. Of the animals?

(II.)—1. What circle passes through the Great Desert? Through the Kalahari Desert? What lies between these desert belts? What does this fertile belt contain? What two other fertile belts? What is the relative position of these belts?—2. Which is the highest plateau? Where are the longest mountain chains? What peaks do they contain? What other important ranges?—4. What is said of the rivers? Of the lakes?



THE SUEZ CANAL.

### POLITICAL AFRICA.

### CVIII. DESCRIPTION.

- 1. **Population.**—The population of Africa is estimated at 190 millions. The inhabitants of the Sahara and the countries north and east of it are mostly of the Caucasian race, though much darker than Europeans. The negro race occupies nearly the whole continent south of the Sahara, and forms much the greater part of the population.
- 2. **Government.**—All the native governments are despotisms, and, except in Egypt and the Barbary States, are of the rudest and simplest description.
- 3. **Commerce.** The limited commerce of Africa is in the hands of the white race. Caravans cross the Great Desert from the Barbary States by the lines of oases, and barter European and Asiatic manufactures for the gold, gums, ivory, and ostrich feathers of Central Africa. Similar articles from the interior are brought to the eastern and western coasts. The Suez Canal and

the Alexandria and Suez Railway are a part of the commercial systems of Europe and Asia.

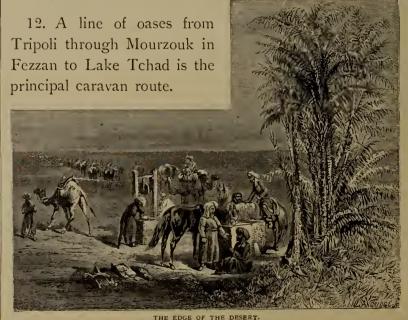
Questions.—1. What is the population of Africa? How is it distributed?—2. What is said of the native governments?—3. What race controls the commerce of Africa? Describe the caravan trade. To what commercial systems do the Suez Canal and Railway belong?

### CIX.

### CAUCASIAN AFRICA.

- 1. **Egypt.**—Egypt and its dependencies, Nubia and Egyptian Soudan, occupy the Valley of the Nile from the Equator to the Mediterranean. They are a portion of the Turkish Empire.
- 2. **The Nile.**—The heavy tropical rains in Abyssinia and farther south cause the Lower Nile to overflow its banks from June to December.
  - The water slowly rises for three months, and as slowly subsides, leaving a narrow river for the rest of the year. A belt of low land from one to seven miles wide, crossing the desert region from the mountains to the sea, is thus alternately a continuous lake and a broad green ribbon of grasses and cotton. Not a single stream joins the Nile for the last 1200 miles of its course, rain being almost unknown except in the Delta.
  - This remarkable valley was for thousands of years the seat of a powerful empire, famous for its wealth, industry, learning, and skill in the arts. The pyramids and temples of ancient Egypt have been preserved by the dry climate, and are the most stupendous and magnificent ruins in the world.
  - Egypt is by far the most important country in Africa. It is the only one that resembles Europe in its manufactures, agriculture, education, railways, and telegraphs, and in the organization of its army and navy.
- 3. **Government.**—The government is a despotism. The chief ruler is called the Khedive, or Viceroy.
- 4. Commerce.— Alexandria and other cities export large quantities of grain and cotton. The Suez Canal, recently completed, belongs to Egypt, and is the most important maritime trade route in the world. It connects the commerce of Europe with that of southern and eastern Asia. An important railway connects Alexandria, Cairo, and Suez, and forms a portion of the overland route to India.
- 5. **Population.**—The population of Egypt and its dependencies is about seven and a half millions; four and a half millions are in Egypt.
  - Most of these are of Arab descent; the remainder are Berbers and other African tribes, with a small number of Copts, who are descended from the ancient Egyptians. The Turks are the ruling class, and Mohammedanism is the prevailing religion.
- 6. Cairo, the capital, is the largest city in Africa. Alexandria is the second city and largest sea-port. Port Said and Suez are at the ends of the great canal.

- 7. **Barbary States.**—The Barbary States are Morocco, Algeria, Tunis, Tripoli, and Barca.
  - The Barbary States are so called from the Berbers, a pastoral and agricultural people occupying the Atlas region. The other principal races are the Moors, the Arabs, the Turks from Asia, and the French from Europe; all but the last are Mohammedans.
  - The fertile valleys and slopes of the Atlas are called the "Tell," or Grain Country. South of the Tell is the Sahara, or Country of Oases; it abounds in dates. The name Sahara is also given by European geographers to the Great Desert.
- 8. Morocco.—Morocco derives its name from the Moors. It is a semi-barbarous country, governed by a sultan. It exports wool, hides and skins, wheat, and almonds. Fez is the western depot of the caravan trade between Europe and Central Africa. Morocco is the capital.
- 9. **Algeria.**—Algeria is a province of France. It exports grain, dates, cotton, indigo, and sugar. The chief cities are Algiers, the capital, Constantine, and Oran.
  - Europeans form but a small part of the population, and are mostly in the sea-port towns. The rest of the inhabitants are about equally divided between the Berbers of the Tell and the Arabs of the Sahara, which here contains many small oases.
- 10. **Tunis.**—Tunis, Tripoli, and Barca are unimportant states, and are dependencies of the Turkish Empire. They export olives, oil, grain, and dates. Fezzan is a dependency of Tripoli. Tripoli, the capital of Tripoli, has a large caravan trade with Central Africa.
- 11. **Sahara.**—The Sahara is the most extensive desert on the globe.
  - It is the western portion of the desert belt that extends from China to the Atlantic Ocean. It consists of rocky plateaus and mountain ridges, separated by broad tracts of gravel or shifting sand. Rain falls during certain parts of the year in the mountain regions, and oases occupy the low and moist spots. In the higher plateaus the people are said to wear furs in the winter.



This line divides the Sahara into two parts. The western, called the "sahel," or "plain," is sandy, and has few oases; it furnishes Soudan with salt. The eastern is the Libyan Desert, and has many oases. East of the Nile is the Nubian Desert.

- 13. **Population.**—Sahara has a small population, who are similar in their habits to the Bedouin Arabs.
- 14. **Abyssinia.**—Abyssinia is the most elevated country in Africa. Many of its mountain peaks are covered with snow during the greater part of the year. The country is in a barbarous condition, and has little or no commerce. Gondar, Antalo, and Ankobar are the chief cities.

Questions (I.)—1. Where are Egypt and its dependencies situated? Name the dependencies. Of what empire is Egypt a part?—2. How do the tropical rains affect the Lower Nile?—3. What is the government?—4. What are the exports? What is said of the Suez Canal? What railway in Egypt?—5. What is the population of Egypt?—6. What city is the capital? For what is Alexandria noted? Where are Port Said and Suez?—7. Name the Barbary States.—8. From what does Morocco derive its name? What is its social condition? Its government? Its exports? Its chief trade centre? Its capital?—9. Of what country is Algeria a province? What are its exports? Its capital and other cities?—10. What is said of Tunis, Tripoli, and Barca? What are their exports? What is said of Fezzan? What is the capital of Tripoli? For what is it noted?—11. How does the Sahara compare with other deserts?—12. Where is the great line of oases?—13. What is said of the population of Sahara?—14. Which is the most elevated country in Africa? What is the social condition of the country? Name the chief cities.

(II.)—2. Describe the effect of the tropical rains upon the Lower Nile. For what was ancient Egypt remarkable? What is the present condition of the country? In what respect does it resemble Europe?—5. To what races do the people belong? Who are the ruling class? What is the prevailing religion?—7. Why are the Barbary States so called? What are the other principal races? Of what religion are they? Where and what is the Tell? The Sahara?—9. What part of the population of Algeria is European? Who are the rest of the inhabitants?—11. Of what is Sahara a part? Of what does it consist? What and where are the oases?—12. How does the line of oases divide the Sahara? What is said of the western part? The eastern part? What other desert east of the Nile?

\_\_\_\_

### CX.

### NEGRO AFRICA.

- 1. **Coast Regions and Climate.**—The greater part of the lowlands along the western and eastern coasts has a hot, moist climate. North of the mouth of the Orange River the coast for seven hundred miles is entirely desert. The interior is little known.
- 2. **Colonies.**—A line of European colonies and trading towns extends from Cape Verde to the Cape of Good Hope, and thence to Mozambique. Cape Colony, Natal, and Transvaal are the most important, and belong to Great Britain. Northeast of Cape Colony is Orange River, which is an independent Dutch Republic.

On the western coasts are Senegambia, in part claimed by the French; Sierra Leone, a British colony of negroes rescued from slave-ships; Liberia, an independent republic of negroes from the United States. The rest of the Guinez ports belong to England, Portugal, and Spain.

On the eastern coast Mozambique is partly in possession

of the Portuguese. The coast of Zanguebar is held by the Arabs; Zanzibar, the capital, is the residence of the Sultan.

- 3. **Exports.**—The principal exports from the eastern and western coasts are the palm-oil of Guinea, gums, spices, sugar, ivory, ostrich feathers, and gold; from the southern coasts wool, hides, tallow, ostrich feathers, and diamonds.
- 4. **Soudan.**—Soudan is a broad fertile belt crossing the continent south of the Great Desert. The principal cities are Kano, Sokoto, Kuka, and Timbuctoo. They have a great caravan trade to the Mediterranean coasts. The exports are gold, ivory, ostrich feathers, and gum-arabic.

In its heavy tropical rains, extensive forests, fertile soil, and great heat, Soudan somewhat resembles the sylvas of the Amazon. It contains a large number of populous, semi-barbarous states.

Most of the inhabitants are Mohammedans, the rest Pagans. The religion of the Pagan negroes combines a belief in evil spirits, witchcraft, and magic charms, and is known as Fetichism.

5. **South Central Africa.**—The central plateau south of Soudan is but little known. Ivory is the principal article of commerce.

Large fresh-water lakes lie south of the Equator and towards the eastern side of the continent. The Victoria Falls in the Zambesi River are exceeded in grandeur only by those of Niagara. In the extreme south is the Kalahari Desert.

6. African Islands.—Madagascar is about equal in area to the five North Central States of the United States. The government is a despotic monarchy. The capital and largest city is Tananarivo. Tamatave, the chief port, exports cattle and rice.

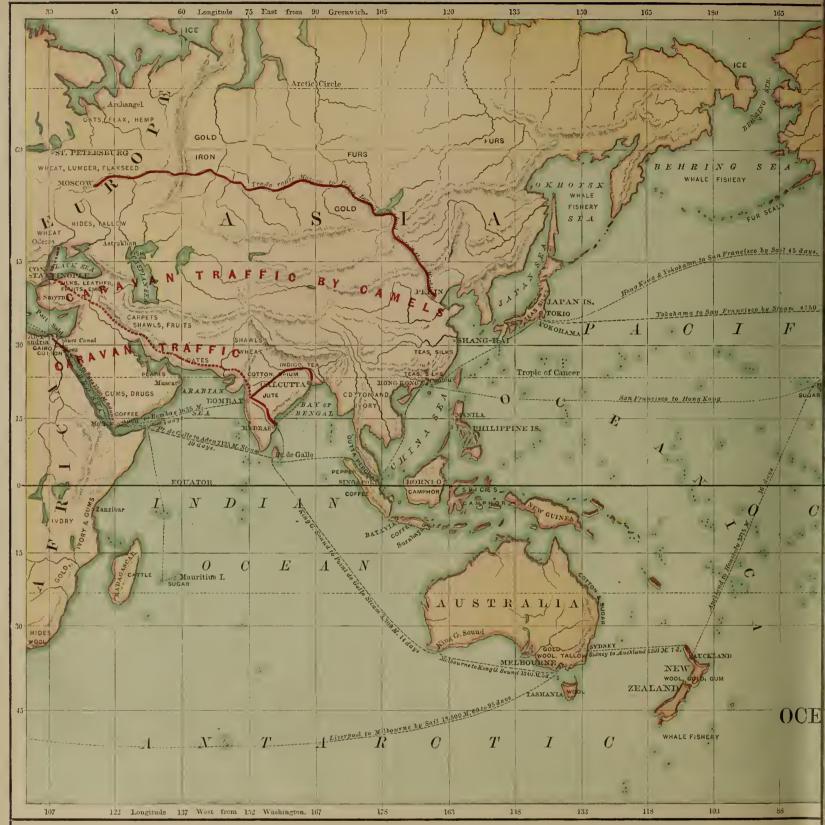
Mauritius, belonging to Great Britain, exports sugar, and is a stopping-place for vessels crossing the Indian Ocean. Reunion, or Bourbon, is a French colony.

The Atlantic Islands are of small size, and are precipitous, volcanic rocks. St. Helena and Ascension belong to Great Britain. The Cape Verde and the Madeira Islands, belonging to Portugal, and the Canaries, belonging to Spain, export wine, sugar, and coffee.

Questions (I)—1. What is the character of the climate of the eastern and western coasts of Africa? What long desert coast? What is said of the interior?—2. Where are the European colonies? Which are the most important? To what country do they belong? What and where is Orange River Republic? What other colonies are there? What republic? To what nations do the other ports belong? Who hold the eastern coast? What is the capital of Zanguebar?—3. What are the exports?—4. What is Soudan? Mention its chief cities. With what coasts do they trade, and how? What are the exports?—5. What region of Africa is yet but little known? What is the principal article of export?—6. To what states is Madagascar equal in surface? What is the government? Which is the capital city? The chief port? Its exports? What is said of Mauritius? Of Reunion? What is the character of the Atlantic Islands? To what country do St. Helena and Ascension belong? What other islands? To what countries do they belong? What are their exports?

(II.)—4. What does Soudan resemble? What does it contain? Of what religions are the inhabitants of Soudan? Describe the religious belief of the Pagan negroes.

—5. Where are the fresh-water lakes? What is said of the Victoria Falls? What desert in the south?



### QUESTIONS ON THE MAP.

Name the chief Atlantic ports of North America. Which one is the most important? What ports on or near the Gulf of Mexico? Name the chief Pacific ports of North America. Which is the most important? Which are the two chief river-ports of the St. Lawrence? Of the Mississippi?

Which is the most northwesterly port of South America? (79\*) What port near the eastern extremity of South America? What ports between Aspinwall and Pernambuco? Between Pernambuco and Cape Horn? Name the principal Pacific ports of South America. Which one is farthest north? Near what Caribbean port is it? By what are they connected? (80)

\* The numbers in this lesson refer to pages in the book where the answers may be found.

Name the two principal ports of the British Islands. For what is the port of London remarkable? (91) What ports in Ireland? (89) In Scotland? (89) Which is the chief port of the north of France? (92) What ports of Europe are on or near the North Sea? (87, 92) On or near the Baltic? (87, 92). In Iceland? (87) Name the chief ports of Europe between the Strait of Dover and the Strait of Gibraltar. (92) Name three Spanish ports on the Mediterranean. (92) Name the chief French port. (94) The chief Italian ports. (92) In Sicily. The chief port of Austria. (96) Of Greece. (96) Of Turkey.

(92) What port on the White Sea? (87)
Name the chief Mediterranean ports of Africa. (114)
The Atlantic ports. (114) What port near the southern extremity of Africa? What ports on the eastern coast? (114) At the ends of the Suez Canal? (114)

What Asiatic ports are on the Mediterranean Sea?

(102) The Red Sea? (102) Persian Gulf? (102) Ar. bian Sea? (102) On or near the Bay of Bengal? (102) The China Sea? (102) What Pacific ports of Asia an north of Canton? (102) Name the chief ports of Autralia. Tasmania. (111) New Zealand. The India Archipelago. The Sandwich Islands.

Where is the chief manufacturing district of Europe? Of North America? What European port has very large trade with the United States? (91) What at the principal exports from New York to Liverpool (64, 90) How do these articles reach New York (34, 42, 64, 65) From what parts of the United State does most of the wheat come? Of the maize? Cotton Tobacco? Provisions? Petroleum? Gold? Silver Why does not New York export dry-goods and iron Great Britain? (90) What other ports of the United States have an important share of the foreign trade? (3)



Which are the chief cotton ports? (New Orleans, Galveston, Mobile, Savannah, Charleston, Norfolk, and New York.) The chief grain ports? (New York, Boston, Philadelphia, and Baltimore.) What are the chief exports from Liverpool to the United States? (34) Name the articles of commerce between French ports and those of the United States. The German ports. Russian ports. Spanish. Italian. Turkish. Greek.

A steamer from London to Smyrna, with an assorted cargo, touches at Cadiz, Gibraltar, and the leading ports of the Mediterranean: what classes of articles will probably constitute the chief part of her cargo? The same vessel sails from Smyrna to New York, stopping at the Mediterranean ports: what articles will she probably bring? She then sails from New York for London: what will her cargo now probably be?

· A steamer from New York to Rio Janeiro touches at

St. Thomas, W. I., and other intermediate ports: what articles is she likely to carry out?\* To bring back? Why not cotton? What cargoes from New York to Montevideo and Buenos Ayres? What return cargoes?

How far by steamer from New York to Aspinwall? To New Orleans? At what port do New York and New Orleans steamers touch? (Havana.) Name the chief exports of western South America.

What are the chief exports of San Francisco? Where is most of the gold and silver sent? (To New York and China.) Of the wheat and flour? (To England.) With what Chinese ports has San Francisco an important trade? What Japanese ports? With what ports of Australia? New Zealand? Sandwich Islands? South

America? Mexico? Why does the steamer-route from Yokohama to San Francisco differ from the route by sail? Whence does San Francisco import most of its coal? (Australia and British Columbia.) Name six of the chief cities on the great railroad routes between San Francisco and New York.

What are the chief exports of Tasmania, New Zealand, and Australia? To what country? What articles are probably imported in return?

Where are the chief whale fisheries? Seal fisheries? Cod fisheries? Other fisheries? Whence are the chief supplies of ivory? Ostrich feathers? Gums? Drugs? Opium? Teas? Tobacco? Silk? Cotton? Coffee? Sugar? Jute? Pepper? Flax-seed? Wheat? Maize? Hides? Furs? Silver? Gold? Copper? Iron? In what parts of the world is traffic still carried on Ly carayans?

<sup>\*</sup> Remember that the manufactures of nearly all countries except those of Western Europe, Eastern North America, and Eastern Asia are very limited.

### PHYSICAL GEOGRAPHY-GENERAL REVIEW.

How is the earth known to be a globe? What has caused it to be flattened at the poles? What is the length of the polar diameter? Of the equatorial diameter? Of the circumference? Describe the general physical condition of the earth. (Ans. The earth is by many supposed to be a slowly cooling and shrinking ball of matter, which was once entirely in a molten state. Its cooled and hardened crust is comparatively thin, and is the surface upon which we live. Mountain ranges are the folds, ridges, and lines of fracture of the crust. The broad hollows of the surface are partly filled by the ocean. Volcanoes are openings to the still melted interior of the earth, and are mostly found upon the lines of fracture.) What evidences have we of the heat of the interior of the earth? (Ans. Volcanoes, hot-springs, earthquakes, and the gradual increase of heat with the depth in deep borings and mines.)

Name the two great land masses. What is the position of the line of direction of each? How many continents in each? What separate continent is there? Name the six continents in the order of their size. How are most of the islands arranged? How many classes of islands are there? What are continental islands? Where are the principal chains? What are occanic islands? Where are the principal chains? What are volcanic islands? Where chiefly found? Name two of each class of islands.

What is a mountain system? Where is the longest system in the world?\* What is its direction? Where is it highest? Name the principal mountain chains of North America. Of South America. Where is the chief mountain system of the Old World? Where is it highest? Name the principal mountain chains of Asia. Of Europe. Of Africa. Of Australia. Where are most of the volcanoes of North America? In what countries? Where are the volcanoes of South America? What island chains of Asia abound in volcanoes? What can you say of the volcanoes of Malaysia? (Ans. They are more numerous than in any other equal area in the world.) What volcanoes complete the "fire circle" of the Pacific? (Ans. Those of Melanesia and New Zealand.) What oceanic islands of the Pacific contain volcanoes? Which has the greatest crater in the world? What volcanoes are in the Mediterranean Sea? In Iceland?

What is a plateau? Which continent has the greatest proportion of plateau surface? Which the least? Where are the great plateaus found in each continent? Describe the great plateau belt of North America. How high is it? What great mountain system rests upon it? Through what countries does it extend? Describe the Eastern Highland. What mountain system does it contain? Name some of the ranges. Where is the highest plateau belt of South America? What countries lie wholly or partly in it? In which is it highest and broadest? How high is it? What mountain system rests upon it? In what country is the broadest plateau of South America? Is it high or low? What mountains does it contain? Where is the chief highland belt of Europe? What countries lie wholly or partly in it? Which are its chief mountain chains? For what are the plateaus of Asia remarkable? In what parts of the continent are they? Name some of them. Which is the highest? How high is it? What mountain chains rest upon these plateaus? Which is the highest plateau of Africa? What mountains rest upon it? What can you say of the plateaus of Australia?

What is a lowland plain? Where is the great low plain of North America? By what is it divided? Into what two plains? Which way does each plain slope? How can you tell this by the map? What plain east of the Appalachian Mountains? Where is the great low plain of South America? Name its three principal divisions. What countries lie wholly or partly in each? Describe the llanos. The selvas. The pampas. Where is the great plain of Europe? What mountain walls partly enclose it? What countries lie wholly or partly in it? What other plains in Europe? In what countries? Where is the great lowland plain of Asia? With what other plain connected? What countries are in it? What great lakes in its western part? What plains in other parts of Asia? For what are the plains of China and Hindostan remarkable? In what part of Africa are the plains?

Name the five chief divisions of the ocean. Which are the three great oceans? Which is the largest? For what else remarkable? The Atlantic? The Indian? The Arctic? The Antarctic? Name the chief islands, border seas, and gulfs of the Pacific. Of the Atlantic. Of the Indian. From what level are all heights estimated? What can you say of it? (Ans. After allowing for the temporary effects of tides, winds, etc., the surface of the sea stands at the same level in all parts of the world.) What are ocean currents? What can you say of their extent? Of their causes? Name some of the principal currents. Of what use are they? Describe the equatorial currents. The Gulf Stream. The Japan Current. The polar currents.

How high does the atmosphere extend? Where is it most dense? Why? At what height does plant life cease? Why? What can you say of the composition of the atmosphere and of the use of each part? (Ans. The atmosphere consists chiefly of a mixture of three gases. Dry air contains about one fifth part oxygen, nearly four fifths nitrogen, and about one five-hundredth part carbonic acid. There is also a variable quantity of watery vapor, which is the source of all rains and dews. The oxygen is the vital element in the breath of animals, but would destroy life if it were not so greatly

diluted with nitrogen. Carbonic acid furnishes all plants with carbon, of which they are chiefly composed.) What is the chief source of the watery vapor? What are the effects of the heat of the sun upon air? In what zone are these effects the most powerful? What are winds? Describe the trade-winds. The counter-trades. In what respects are winds similar to ocean currents? Of what uses are winds?

What is climate? Upon what does it chiefly depend? How affected by latitude? By elevation? By sea winds? By land winds? By ocean currents? By distance from the sea? What is meant by the annual rain-fall of a country? In which zone is it greatest? Describe the tropical rain-belt. How does it affect climate and vegetation? How do high mountains affect climate? What is the chief cause of deserts? Where is the great desert belt? What states or countries in each continent have a very dry climate?

What is a river system? A basin or valley? What great rivers flow into the Arctic Ocean? What plains do they drain? What great rivers flow into the Atlantic and its seas, etc.? What plains or what plateaus do they drain? Which is the most extensive river system of North America? Name some of the principal branches. Of South America? The chief branches? What great rivers flow into the Indian Ocean? What plains or what plateaus do they drain? Into the Pacific? What plains or plateaus do they drain? What rivers of Europe and Asia do not flow into the ocean? Into what do they flow? Why are such lakes salt? Are there any salt lakes in the United States? Where? In any other part of the world? Where? Where is the Dead Sea? For what remarkable? In which continents are the two chief systems of fresh-water lakes? With what rivers and ocean are they connected? What is meant by "perpetual snow?" By the "snow-line?" How does its height vary? What are glaciers? How formed? Where found in Europe? In Asia? In North America? What is Greenland supposed to be? (Ans. An archipelago in which both land and sea are filled with glaciers.) What are icebergs? How formed? (See page 15.) (Another cause is that the lower ends of arctic and antarctic glaciers are sometimes pushed forward along the sea-bottom and into very deep water. Being lighter than the salt water, they have a tendency to float, and thus break off.)

Upon what does the character of vegetable life chiefly depend? (Ans. Upon climate and soil.) Where is the principal forest region of North America? What parts of it abound in pines and firs? Where are the prairie regions? What vegetation is found on the great western plains? Near the shores of the Arctic Ocean? Where is the western forest region? Which are its principal trees? Where are the largest trees in the world? What is the character of the vegetation of the West Indies and the low parts of Central America? Name some of its trees. Where are the grassy regions of South America? The desert regions? The great forest region? Name some of its most useful trees. The chief forest regions of Europe? Of Asia? Name some Asiatic plants. Where is the principal forest belt of Africa?

Name the chief food plants of the temperate regions of North America. Of the warmer regions and the West Indies. Of South America. Of southern Europe. Of the rest of Europe. Of southern Asia. Of Africa. Of Australia. Which is the principal grain of the world? (Ans. Rice; it supports more than one third of the human race.)

Name some quadrupeds found in the colder parts of North America.\* What other quadrupeds are found in that continent? Name its largest reptile. The most remarkable birds. The most remarkable quadrupeds, birds, and reptiles of South America. Some of the quadrupeds of northern Europe. Of other parts of Europe. From what continent were most of our domestic animals originally derived? Name some of the most remarkable animals of northern Asia. Of desert Asia. Of southern Asia. What peculiarity have most of the Australian quadrupeds? Name some of the pouched animals. Some of the birds of Australia and their peculiarities. How is Africa remarkable in regard to its animals? Name some of them.

Name the five races of mankind. Which two are the most numerous? Which is the least? What part of mankind is comprised in each of the five races? Where is the Caucasian race found? The Mongol? The Ethiopian? The Malay? The American? For what is the Caucasian race distinguished? What races are found in North America? In what part of the continent are the Caucasians chiefly found? Of what race are the Esquimaux? (Ans. Mongol.) Where are they? (Ans. On the shores of Alaska and of the Arctic Ocean.) The Ethiopians? The Americans? What two races occupy Europe? Which are the chief European branches of the Caucasian race? Where are the Celts? The Teutous? The Sclaves? To which branch do the Irish belong? The Welsh? The Germans? The English? The Russians? What peoples of Europe are Mongols? (Ans. Lapps, Finns, Turks, and Magyars.) What three races occupy Asia? What mountains separate the Mongols from the Caucasians? Of what race are the Persians? The Chinese? The Arabs? The Ilindoos? The Japanese? The Tartars? In what part of the continent is the Malay race found? In what archipelago is the greater part of that race? What two races occupy Africa? Which is the more numerous? In what part is the Ethiopian race? The Caucasian?

<sup>\*</sup> For mountains, plateaus, and plains, consult the physical maps and the sections of the continents.

<sup>\*</sup> In the illustrations the animals of each continent are arranged in the general order of their latitude.

### POLITICAL GEOGRAPHY-GENERAL REVIEW.

What is Political Geography? What does it include? Which are the principal forms of government? What is a republic? A monarchy? A limited monarchy? An unlimited monarchy? A kingdom? An empire? Give an example of each form of government. What form of government prevails in the New World? In the Old World? What empire in America? What republics in Europe? What title is usually given to the chief magistrate of a republic? Of a state? Of a city? To the sovereign of Russia? Of Prussia? Of Germany? Of Turkey? Of Egypt? Of Japan? What is the capital of a country? The metropolis?

What countries and islands of North America and the West Indies belong to Great Britain? To Spain? To Denmark? Which are independent? Name the capital of each country of North America. Its largest city. What language is spoken in the City of Mexico? Quebec? New Orleans? Havana? Guatemala? Which of the countries of South America are European colonies? Where are most of the civilized inhabitants of that continent? Name the capital of each country. The largest city. What language is spoken in Caracas? In Lima? In Rio Janeiro? In Valparaiso? In Bogota? In Buenos Ayres? How do the creoles of Spanish America compare with the other races in numbers? Which state of South America has the largest proportion of Europeans?

Which countries of Europe are empires? Which are republics? Which are kingdoms? Which is the most extensive monarchy in the world? Which is next in extent? Which of these two has the greater population? What countries are embraced in the Russian Empire? In what country is the greater part of its population? Of what races and religions are they? What countries are included in the British Empire? Of what races and religions are its inhabitants? In what country are the greater part of the inhabitants? Of what countries does the kingdom of Great Britain and Ireland consist? Name the capital and one large city in each. What language is spoken in London? In Edinburgh? In Dublin? In Wales? (Ans. Cymric.) In Western Ireland? (Ans. Erse.) In St. Petersburg? In Christiania? In Stockholm? In Copenhagen? In Amsterdam? In Brussels? In Paris? In Berlin? In Vienna? In Berne? In Lisbon? In Geneva? In Venice? In Naples? In Athens? In Constantinople? (Ans. Many languages.)

Name the foreign possessions of France. What name is given to the Swiss states? What peoples inhabit Switzerland? What is the proper title of Austria? What provinces are included in the empire? (See map.) What peoples constitute the population? Which is the most numerous? What two independent principalities are on

the Danube? What can you say of the population of European Turkey? Which is the governing people? Of what race, origin, and religion? Name the provinces of European Turkey. Who is the head of the Mohammedan religion? What countries are included in the Turkish Empire? What titles are sometimes given to the Turkish government? (Ans. The Ottoman Porte and the Sublime Porte.) What are the character and effects of the government? Name the colonial possessions of Denmark. What two separate kingdoms of Northern Europe have the same king? Which of these is the more populous and powerful?

Name the countries of Asia. The capital of each. What European nations have possessions in Asia? Which are the Asiatic possessions of Russia? Of Great Britain? Of France? Of Turkey? Of the Netherlands? Of Spain? Name the divisions of Asiatic Russia. Which is the most populous? Name its capital. Describe the European population of Siberia. What countries are included in the Chinese Empire? Name in their order five governments which occupy more than half of the land surface of the globe. Where are the greater part of the inhabitants of the Chinese Empire? What is the form of government? Name the chief islands of Japan. What is the character of the government? By whom is British India governed? Who is Empress of India? What countries are included in Indo-China? What is the character of the native governments of Asia? Who are the Bedouins?

To whom do the Philippines belong? What is the capital? What city is the capital of the Dutch East Indies? Name the colonial divisions of Australia. What other British colonies are near Australia? To whom do the Feejee Islands belong? The Society Islands? The Sandwich? What is the character of the native governments of Africa? Name its most important countries. Name the capital of each. What countries of Africa are dependencies of Turkey? Of Egypt? Where are the Portuguese possessions? The English? The French? Name the Barbary States. Which of them is independent? What two independent republics in Africa? What coast is held by the Arabs? What African islands belong to Great Britain? To France? To Spain? To Portugal?

How many states in the United States? How many territories? What is the form of government? What city is the capital? What is a state? A territory? Name the physical groups into which the United States may be divided. Name the states in each group, and the capital and largest city in each state.

What provinces constitute the Dominion of Canada? Describe its form of government? Name the capital and the largest city of each province?

### COMMERCIAL GEOGRAPHY-GENERAL REVIEW.

What is domestic commerce? Foreign commerce? What articles of commerce do the New England States supply to other parts of the country? The Middle Atlantic States? The South Atlantic? The South Central? The North Central? The West Central? The Pacific States? The rest of the Great Highland? Which is the chief article of export of the United States? Name other leading articles of export to Europe. To South America. To Asia. To the West Indies. Name the principal imports of the United States. Name in their order five of its chief sea-ports. With what country is our principal foreign commerce? Which are the chief articles of import from England? Scotland? France? Germany? Italy? Brazil? United States of Colombia? Venezuela? Mexico? Cuba? Canada? China? Japan? British India? Dutch East Indies?\*

From what countries do we import coffee? Tea? Sugar and Molasses? Woollen goods? Cotton goods? Linens? Silk goods? Raw silk? Iron and steel goods? Salt? Spices? Fruits? Rice? Hides and skins? Dye-woods? Indiarubber?

Name the chief Mediterranean ports of Spain. Of France. Of Italy. Of Austria. Of Turkey. Of Egypt. Of the Barbary States. Name the southern ports of Russia. The most northern port. The Baltic ports of Russia. Of Sweden. Of Denmark. Of Germany. The chief Atlantic ports of Norway. Of Germany. Of Netherlands. Of Belgium. Of France. Of Spain. Of Portugal. Of England. Of Scotland. Of Ireland. Of British North America. Of the United States. Of Brazil. Of Guiana. Of Urugnay. Of the Argentine Republic. Of Iceland. Name the chief port or ports of the Gulf of Mexico or of the Caribbean Sea belonging to the United States. To Spain. To Mexico. To Great Britain. To Venezuela. To the United States of Colombia. What ports of the Pacific Ocean are in China? In Indo-China? In Japan? In the United States? In Mexico? In the United States of Colombia? In Equador? In Peru? In Chili? In Australia? In New Zealand? In the Sandwich Islands? Which is the chief port or ports in the Dutch East Indies? In the Spanish East Indies? On the southern coast of Africa? On the eastern coast? On the Red Sea? The Arabian Sea? The Persian Gulf? The Bay of Bengal?

**Tabular Reviews.**—In addition to the numerous map reviews found in the text of this work, it may be found expedient to introduce topical reviews in the form of tabular synopses. Models are given below. The headings for the columns may be greatly varied. The number of topics for each lesson is left to the judgment of the teacher.

COUNTRIES.	NORTH BOUNDARY.	EAST BOUNDARY.	SOUTH BOUNDARY.	WEST BOUNDARY.
M exico {	United States.	Rio Grande and Gulf of Mexico.	Central America.	Pacific Ocean.
United States	Dom. of Canada.	Atlantic Ocean.	Gulf of Mexico and Mexico.	Pacific Ocean.

COUNTRIES.	SURFACE.	MOUNTAINS AND PLAINS.	RIVERS.	LAKES.	CLIMATE.
Chili {	Mountainous.	Andes.	None.	None.	Dry in N., Rainy in S.
Argentine Republic	Level.	Pampas.	La Plata, Parana.	Salt Lakes.	Cold and dry in S., Trop- ical in N.

COUNTRIES.	GOVERN- MENT.	RULER.	CAPITALS.	LARGEST CITIES.	EXPORTS.
Austria {	Limited Monarchy.	Emperor.	Vienna.	Vienna.	Wheat, wine, and manu- factures.
Italy	Limited Monarchy.	King.	Rome.	Naples.	Oil and manufactures.

STATES.	MOUNTAINS.	RIVERS AND LAKES.	RAILROADS.	PRODUCTS.	CAPITALS and CHIEF CITIES.
New York	Adirondack, Catskill.		N.Y.C. & Hud- son R., N.Y, L. Erie, & W.		Albany, New York.
Pennsylvania	Alleghany, Blue, etc.	Susquehanna R., Alleghany R., Monongahela R.	Pennsylvania.	Iron, Coal, Petroleum, Manufactures.	Harrisburg, Philadelphia.

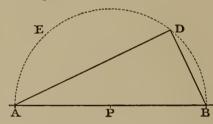
<sup>\*</sup> For valuable statistics of the commerce of the world, see page 125.

### CARTOGRAPHY.

Order of the Maps.—To obtain the best results it is advised that the maps be taken in the following order: 1. The several states of the United States; 2. Groups of states; 3. The continents; 4. Separate countries of Europe; 5. The United States; 6. The hemispheres.

Materials and Conveniences.—1. Suitable paper. 2. Lead-pencils—No. 2 will generally be found the best for the work; keep sharp with fine file. 3. Ruler—one with a scale is best. 4. A flexible ruler will be found convenient, but is not indispensable; it should be a thin and narrow strip of cedar, or some other even-grained wood; a good piece of whalebone may be made to answer. 5. Dividers are convenient, but may be dispensed with. 6. Ink for going over the penciled coast-lines, and all other details; India ink is the best. 7. Colors: three colors—blue, yellow, and red—are indispensable; by proper mixtures of these all other necessary colors may be made. 8. Brushes, or hair-pencils, of different sizes, for laying on the colors—two or three are enough. It is also important to have two or more right-angled rulers of different sizes, for making true corners to the maps, etc. They may be readily constructed of cardboard in the following manner:

Upon a stiff piece of cardboard draw a straight line, A B, and measure off two equal parts, P A and P B. With P as the centre, draw the semicircle A E B. From any point on the circumference, as D, draw lines to A and B. The angle D is a right-angle. Cut the card on the three lines forming the triangle; use a sharp knife.



It will often be necessary to divide a straight line into a certain number of equal parts.

1. To divide a line into 2, 4, 8, or 16 equal parts, when you have neither scale nor dividers: take a strip of writing-paper having a straight edge and just as long as the line to be divided; fold it very carefully once for halves, twice for fourths, etc., and then measure and mark these divisions upon the line.

2. To divide a straight line into any number of equal parts. Suppose A B to be the line, and that it is to be divided into five equal parts.

From either end draw a straight line, A C, of any convenient length, and, beginning at A, measure off upon A C as many equal parts (5) of any length as there are to be in A B. Draw a line from the last point (5) to B. Now from points 4, 3, 2, and 1 draw lines parallel to the line 5 B. They will divide A B into five equal parts.

To draw these lines exactly parallel, cut from a card an angle that will exactly fit into the angle at 5. Put one side of this card-angle upon the line A C, with the point exactly at 4, and draw the line 4 b. Do the same at 3, 2, and 1.

### METHOD OF DRAWING.

Many plans have been devised to facilitate the accurate copying of maps. The simplest and most efficient is the method of equal squares. It has long been used in copying maps, pictures, plans, etc. The following example will sufficiently illustrate the method:

To draw the Map of North America.—1. Divide the map into equal squares. Divide the upper and lower inner margins into four equal parts, marking the points lightly in lead-pencil. Commencing at the upper corners, measure off on the right and left margins distances equal to the divisions of the upper and lower margins. Connect each point with the point opposite by a lightly drawn pencil line. Observe that one of these lines is the central meridian of the map. The map is now divided into twenty equal squares and four parts of squares. These last may be omitted in drawing, if it be thought desirable. If retained, notice that they are about one quarter as wide as they are long.

2. Prepare the paper.— If the scale of the map is to be the same as that in the book, construct the twenty squares, using the same measures. If the map is to be on a larger or smaller scale, draw a line of suitable length for the upper margin, and

divide it into four equal parts. At the ends of this line draw two others at right angles to it, and measure off upon each five parts equal to those of the upper line; join the opposite points, and complete the diagram as before. Let all the lines be drawn lightly, so as to be easily removed with the rubber.

3. To copy the map, begin with the upper left-hand square, and draw the outlines lightly in pencil, being careful to observe in what parts of the square they are to be, and where they cross the sides of the square, and so proceed with each square. While drawing, rest your hand upon a piece of paper, so as not to soil your map. Always work from above downward. If very great accuracy is desired, subdivide each of the squares, both of the original and the copy, into four or more smaller squares, and proceed as before. The greater the number of squares, the more accurate may the copy be made. To prevent mistakes, it is desirable to number or letter the squares in some regular order.

If the meridians and parallels are to be inserted, mark lightly the places where

they cross the sides of the squares, and draw them either with the flexible ruler or with the free hand.

In drawing the outlines, include only the coasts, islands, lakes, rivers, and the boundaries of countries. To fill in the details and complete the map, observe the following order:

1. Go over the meridians, parallels, and outlines slowly and carefully with a fine pen; use thin India ink. 2. Draw the mountains.—Use the lead-pencil. Practice first on a piece of paper: observe that the lincs used are very fine; that they are divergent, not parallel; that they are in small groups, each of which has a blank space in the middle; that the higher mountains have two or three sets of lines and are darker near the blank centre. 3. Letter the map.—Use the lead-pencil. Practice first on paper: be very careful as to spacing the letters, and use the simplest styles. Begin with the names which are in large capitals; then insert the names of lakes, rivers, cities, capes, etc. As far as possible let the lines of letters follow the direction of the parallels. Go over mountains and letters with ink. Clear all pencil marks from the map before coloring. 4. Color the map.—Use only clean water to mix the colors. Do not color too strongly. If the first coat is too weak when dry, add another.

To avoid drawing pencil lines across the engraved map.—This may readily be done in any one of several ways. The following is the easiest and bcst: Procure at the stationer's a sheet of gclatin paper, such as is used in copying plans, etc. It is nearly as transparent as glass. The piece used may be of the same size as the map in the book, or it may be of one half or even of one quarter of that size. If of the full size, rule it into squares, as directed in 2. Blacken the lines carefully with ink, and let them dry, and repeat the process if necessary. To use this sheet lay it upon the map with the lines upon the under side, so that the central meridian and margins of the map exactly correspond with the lines upon the paper.

If a sheet of one half or one quarter the size is used, each large square must be divided into four smaller ones. Lay it upon the map so that its edges correspond with the central meridian and the margins, and, after drawing that half or fourth of the map, follow the same plan with the remaining portions.

Another method, very suitable for home work, is to use a small pane of glass of the half size or quarter size, and ruled into squares with a common pen filled with ordinary black paint mixed with varnish. Or the ruling may be done with a diamond, and the lines blackened. Use with the ruled side down. Still another plan is to make a frame of cardboard, or some other suitable material, and divide the enclosed space into squares by means of fine threads or wires.

Additional Hints.—Never begin to draw a line until you have carefully made up your mind as to just where it is to be and what it is to be.

Small squares will be found best for maps of separate states.

Observe that the mcridians are not the same distance apart at the top of the map as at the bottom, and that only one of them is a perfectly straight line.

It will be useful to remember that a degree on the central meridian is about seventy miles

The single-page maps in this book are all of one size, but are not drawn on the same scale.

### STATISTICAL TABLES.

		RINCIPAL CITIES the United States, Census of 1876				MERCIAL STATIS	
NORTH AMERICA.	Paramaribo 25,000 Cayenne S,000	Granada 62,000 Cadiz 62,000		Countries.	Standing Army. War Navy.	Imports Exports for 1874.	Trade with the United States
British America.  Montreal, Queb 107, 225 Quebec, Queb 50, 055 Toronto, Ont 46, 092 Halifax, N.S 29, 582 St. John, N. B 28, 988	EUROPE. Norway. Christiania	Portugal. Lisbon	Smyrna	0   British West Indies 0   Mexico 0   United States 0   Central America	21,000 9 35 32,000 179 1440	32,000,000 625,000,000 631,000,00	0 3,000,000 1,500,00
St. John's, N. F. 22,583 Ottawa, Ont. 21,545  Mexico	Sweden. 34,364 Stockholm 157,215 Gottenburg 68,756 Russia.	Berlin 966,872 Hamburg 345,801 Breslau 229,050 Dresden 197,295 Munich 169,693 Elberfeld-Barmen.147,890	Asiatic Russia.	Cuba and Porto Rico Hayti	6,500 7 16	47,000,000 7,000,000 500,000 40,000,00 7,000,00 750,00 43,000,00	0 93,000,000 22,000,00 0 1,500,000 4,500,00 0 400,000 500,00
Guadalaxara 75,000 Puebla 65,000 Guanaxuato 63,000 Queretaro 48,000 Central America.	St. Petersburg . 667,926 Moscow 611,970 Warsaw 251,584 Odessa 162,814 Kishenev 103,998 Riga 102,043	Cologne       135,371         Leipsic       127,387         Magdeburg       122,789         Königsberg       122,636         Stuttgart       107,273         Hanover       106,677	Irkoutsk       30,00         Tobolsk       20,00         East Turkestau       Yarkand       120,00         Kashgar       80,00	6 Bolivia. 0 Brazil Chili United States of Colombia Ecuador. Peru	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c cccc} 6,000,000 & 5,000,00 \\ 85,000,000 & 97,000,00 \\ 27,000,000 & 32,000,00 \\ 8,000,000 & 8,000,00 \\ 4,000,000 & 4,000,00 \\ 44,000,000 & 77,000,00 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
New Guatemala. 40,000 San José 25,000 San Salvador 20,000 <b>West Indies.</b>	Astrakhan	Frankfort-on-the- Main 103,136 Dantzic 97,931 Strasbourg 94,346 Nuremberg 91,017 Bremen 82,950	China.  Pekin 1,640,00 Canton 1,000,00 Tientsin 930,00 Han-chau 800,00	Venezuela	283,000 68 473 40,000 4 34	10,000,000 5,000,000 294,000,000 294,000,000 216,000,000 203,000,00 203,000,00	0 5,500,000 2,333,000 0 500,000 1,750,000 0 5,750,000 21,000,000
Santiago 96,000 Kingston, Jamaica 31,000 Port-au-Prince, Hayti 21,000 St. Johns, Porto Rico 18,000 San Domingo 15,000	London 3,533,484 Glasgow 555,933 Liverpool 527,083 Manchester 500,397 Birmingham 377,436 Dublin 314,666	Austria.  Vienna 1,001,999  Pesth 202,000  Prague 189,949  Trieste 109,324	Fuh Chau 600,00 Nankin 500,00 Ningpo 400,00 Shanghai 277,00 Amoy 200,00 Hong Kong 102,00	0 France 0 German Empire 0 Great Britain and Ireland 0 Greece 0 Italy	$ \begin{vmatrix} 454,000 & 156 & \dots \\ 402,000 & 47 & 334 \\ 192,000 & 527 & 3600 & 1 \\ 12,000 & 34 & 128 \\ 205,000 & 80 & 655 \end{vmatrix} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SOUTH AMERICA.  Veuezuela. Caracas 50,000	Leeds     .291,580       Sheffield     .274,914       Edinburgh     .218,729       Bristol     .199,539       Belfast     .174,394       Bradford     .173,723       Dundee     .142,951	Lemberg. 87,109 Gratz. 81,119 Switzerland. Geneva 46,783 Basle. 44,834 Berne 36,001	Japan. Tokio (Yedo) 790,00 Ozaka 414,00 Kioto 375,00 Vokohama 25,00	Portugal   Russia   Spain   O   Sweden   O   Norway   O   Switzerland   O   Switze	$ \begin{vmatrix} 33,000 & 38 & 288 \\ 766,000 & 225 & 1761 \\ 284,000 & 131 & 839 \\ 150,000 & 128 & 551 \\ 12,000 & 129 & 643 \\ 201,000 & \dots & \dots \end{vmatrix} $	$\begin{array}{cccc} 27,000,000 & 21,000,00 \\ 414,000,000 & 311,000,00 \\ 83,000,000 & 68,000,00 \\ 45,000,000 & 43,000,00 \\ 27,000,000 & 21,000,00 \\ 82,000,000 & 78,000,00 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Maracaybo 20,000  U. S. of Colombia.  Bogota 50,000 Cartagena 18,000 Panama 18,000	Newcastle. 139,929 Hull. 136,933 Portsmouth 124,867 Leicester. 113,581 Sunderland 108,343 Brighton. 100,632	Zurich 21,199  Italy.  Naples 448,743 Milan 261,976 Rome 244,484	Ilindostan.  Bombay	Turkish Empire.  Asia, Africa, etc. China. Japan. Persia.	820,000 36,000 17 70 114,000	59,000,000 26,000,00 117,000,000 122,000,00 29,000,000 26,000,00 11,000,000 1,000,00	0 18,000,000 1,666,000 0 6,500,000 1,800,000
Popayan 16,000  Ecuador.  Quito 70,000 Guayaquil 26,000	Aberdeen 98,181 Merthyr-Tydvil 97,020 Nottingham 93,627 Cork 78,382  Denmark.	Palermo     219,938       Turin     207,770       Florence     167,993       Genoa     130,269       Venice     128,901       Bologna     115,957	Lucknow	Dutch East Indies  Dutch East Indies  Egypt	14,000 47 1760	263,000,000 344,000,00 24,000,000 73,000,00 150,000,000 168,000,00	4,000,000 1,500,000
Peru.         Lima       160,000         Cuzco       40,000         Callao       30,000	Copenhagen 181,291  Netherlands.  Amsterdam 289,982	Messina 111,854 Leghorn 97,096 Roumania.	Bankok	T		OF THE PRINCH ENGLISH MILES	
Bolivia. La Paz	Rotterdam132,054 The Hague100,254  Belgium.	Bucharest	Afglianistan. Cabul	n	Length Area		WORLD.
Sucre	Brussels	Servia. Belgrade 27,605 Turkey.	Persia. Tabriz	Nile, Africa	3,000 1,250,000	Mississippi (entire), U.	5 4.200 1.244.000
Argeutiue Coufederation.  Buenos Ayres 178,000 Cordova 29,000 Rosario 23,000	France. Paris1,988,806 Lyons342,815 Marseilles318,868 Bordeaux215,140 Lille162,775	Constantinople400,000 Adrianople50,000 Greece. Athens46,000	Teheran \$5,00 Meshed 70,00 Ispahan 60,00  Arabia Mecca 45,00	O Yenisei, Siberia Yang-tse-Kiang O Zambesi, South Africa Niger, Central Africa Lena, Siberia Amoori, Amooria	3,400 1,040,000 3,320 950,000 1,600 900,000 3,000 800,000	La Plata, South Americ Mackenzie, British N. A St. Lawrence, Canada Saskatchawan, Brit. N	a 2,300 1,242,000 America 2,300 590,000 2,000 480,000 America 1,900 480,000
Uruguay.  Montevideo 60,000  Paraguay.  Asuncion 48,000  Brazil.	Toulouse 131,642 St. Etienne 126,019 Nantes 122,247 Rouen 104,902 Havre 92,068 Toulon 70,509 Brest 66,828	Barbary States. Tunis	Muscat	Murray, S. Eastern Australi Brahmapootra, South India Orange, South Africa Ganges, India	1,600   416,000	Columbia, North Ameri Colorado, U. S., N. Am San Francisco, Brazil, S Rio Grande, U. S., N. A Yukon, Alaska Colorado, Texas	600   38,000
Rio Janeiro 274,972 Bahia	<b>Spain.</b> Madrid332,024	Algiers 49,000  Egypt. Cairo 349,883	Australia.  Melbourne194,000 Sydney135,000		Population. Aver. Pop. to Sq. Mile.		ns of Christians.  Protestants. Eastern Churches.
Maranham 40,000  Guiana.  Georgetown 35,000	Barcelona.       180,000         Malaga       93,000         Valencia.       87,000         Seville.       82,000	Suez 13,498	Ballarat. 74,00 Adelaide 27,00 Hobart Town 20,00 Auckland 20,00	Europe 3,925,000 Asia 17,300,000 Africa 11,557,000 North America, 9,593,000	303,000,000 80 799,000,000 47 206,000,000 18 57,000,000 6	Europe	72,000,000 69,000,000 ,000 32,000,000 ,000 1,000,000 ,000 2,000,000 9,000,00
000,000; Brahmins (India	a), 145,000,000; Religion of 000 to 20,000,000; Mohamm	as, 394,000,000; Buddhists Confucius (China), 60,000, nedanism, 199,000,000; Jud	000 to 100,000,000; Shint aism, 7,000,000.	Totals 52,000,000		Totals 201,800	0,000   2,000,000   3,000,00   2,200,000   .
				IPAL MOUNTAINS OF			
Mt. St. EliasCoast Orizaba Mexi Popocatepětl	Feet. 17,900 I Co 17,897	North America- Mt. Holy CrossRocky South Ame IllampuAndes	Mountains14,000 eriea.	Europe—Conti Mt. Rosa Swiss Alp Matterhorn	Feet. 15,223 	Dhawalaghiri Hir Hindoo-Koosh Cat Mt. Elburz Cat Mt. Demavend Per	ontinued. Feet. nalaya
Rainier Casca Shasta " Tyndall Sierra Mt. Harvard Rock Grays Peak " Mt. Lincoln " Longe Peak "	14,440 a Nevada	Illimani		Mt. Iséran French A Mt. Mulhacen Sierra Ne Pic Anéthou Pyrenees Etna (vol.) Sicily Vesuvius (vol.) Italy  Asia.	lps	Fujiyama (vol.)Jap <b>Af</b> Kilima Njaro	riea. 20,066
Longs Peak	"14,235 "14,150	Europe	e.	Everest Himalaya Dapsang Kara Kor Kinchinjunga Himalaya	um28,278	Mt. KosciuskoAus	tralia. tralian Alps 7,170 6,41s

STATI	STICS 0	F AGRIC	CULTURI	IN THI	E UNITE:	D STAT	ES FOR	1869—	CENSUS	OF 1870	•	MANUFAC	CTURING.	MINI	ING.
States and Territories.	Improved Land.	Corn.	Wheat.	Oats.	Potatoes (White),	Potatoes (Sweet).	Tobacco.	Cotton.	Wool.	Batter.	Hay.	Capital.	Product.	Capital.	Product.
	Acres.	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Pounds.	Lales.	Pounds.	Pounds.	Tons.				
Alabama	5,062,204 1,859,821	16,977,948 13,382,145	1,055,06S 741,736	770,866 528,777	162,512 422,196	1,871,360 890,631	152,742 594,886	429,482 247,968	3S1,253 214,784	3,213,753 2,753,931	10,613 6,839	\$5,714,032	\$13,040,644	\$39,600	\$52,50
Arkansas	6,218,133	1,221,222	16,676,702	1,757,507	2,049,227	202,035	63,809	34	11,391,743	7,969,744	551,773	1,782,913 39,728,202	4,629,234	00.070.07	0.001.00
Connecticut	1,646,752	1,570,364	38,144	1,114,595	2,789,894	867	8,328,798	5.11	254,129	6,716,007	563,328	95,281,278	66,594,566 161,065,474	20,079,975	8,281,63
Delaware	698,115	3,010,390	805,477	554,388	362,724	85,309	250		58,316	1,171,963	41,890	10,839,093	16,791,382	1,496,100	1,227,40
Florida	736,172	2,225,056		114,204	10,218	789,456	157,405	39,789	37.562	100,989	17	1,679,930	4,685,403	89,210	10,80
Georgia	6,831,856	17,646,459	2,127,017	1,904,601	197,101	2,621,562	288,596	473,934	846,947	4,499,572	10,518	13,930,125	31,196,115	145,800	49,28
Illinois	19,329,952	129,921,395	30,128,405	42,780,851	10,944,790	322,641	5,249,274	465	5,739,249	36,083,405	2,747,339	94,368,057	205,620,672	4,814,123	6,968,20
Indiana	10,104,279	51,094,538	27,747,222	8,590,409	5,399,044	150,705	9,325,392	3	5,029,023	22,915,385	1,076,768	52,052,425	108,617,278	610,692	1.137.17
Iowa	9,396,467	68,935,065	29,435,692	21,005,142	5,914,620	34,292	71,792		2,967,043	27,512,179	1,777,339	22,420,183	46,534,322	756,224	1,063,4%
Kansas	1,971,003	17,025,525	2,390,298	4,097,925	2,342,988	49,533	33,241	7	335,005	5,022,758	490,289	4,319,060	11,775,833	179,130	174,27
Kentucky	8,103,850	50,091,006	5,728,704	6,620,103	2,391,062	802,114		1,080	2,234,450	11,874,978	204,399	29,277,809	54,625,809	761,450	509,24
Louisiana	2,045,640	7,596,628	9,906	17,782	67,695	1,023,706	15,541	350,832	140,428	322,405	8,776	18,313,974	24,161,905	100	1,20
Maine	2,917,793	1,089,888	278,703	2,351,354	7,771,009	354	15		1,774,168	11,636,482		39,796,190	79,497,521	597,768	621,73
Maryland	2,914,007	11,701,817	5,774,503	3,221,643	1,632,205	218,706	15,785,339		435,213	5,014,729	223,119	36,438,729	76,593,613	25,369,730	3,444,18
Massachusetts	1,736,221	1,397,807	34,644	797,664	3,025,446	917	7,312,885		306.659	6,559,161	597,455	231,677,862	553,912,568	944,250	1,493,52
Michigan	5,096,939	14,086,238	16,265,773	8,954,466	10,318,799	3,651	5,385		8,726,145	24,400,185	1,290,923	71,712,283	118,394,676	9,962,874	7,199,11
Minnesota		4,743,117	18,866,073	10,678,261	1,943,003	1,594	8,247	F.* 4 000	401,185	9,522,010	695,053	11,993,729	23,110,700	18,500	35,35
Mississippi	4,209,146	15,637,316	274,479	414,586 16,578,313	214,189 4,238,361	1,743,432 241,253	61,012	564,938	288,285	2,613,521	8,324	4,501,714	8,154,758	****	
Missouri	9,130,615 647,031	66,034,075 4,736,710	14,315,926 2,125,086	1,477,562	739,984	762	12,320,483 5,988	1,246	3,649,390 74,655	14,455,825 1,539,535	615,611 169,354	80,257,244	206,213,429	3,489,250	3,472,51
Nebraska		9,660	228,866	55,916	129,249		25	106	27,029	110,880	33,855	2,169,963 5,127,790	5,738,512 15,870,539	14,850	30,13
New Hampshire	2,334,487	1,277,768	193,621	1.146.451	4,515,419	160	155,334		1,129,442	5,965,080	612,648	36,023,743	71,038,249	32,253,400	11,166,45
New Iersey	1,976,474	8,745,384	2.301,433	4,009,830	4,705,439	1,550,784	40,871		336,609	8,266,023	521,975	79,606,719	169,237,732	203,450	323,50
New York	15,627,206	16,462,825	12,178,462	35,293,625	28,547,593	10,656	2,349,798			107,147,526	5,614,205	366,994,320	785,194,651	2,501,700 4,696,091	2,554,473 4,324,65
North Carolina	5,258,742	18,454,215	2,159,879	3,220,105	738,803	3,071,840	11,150,087	144,935	799,667	4,297,834	\$3,540	8,140,473	19,021,327	1,853,100	638,30
Ohio	14,469,133	67,501,144	27,882,159	25,347,549	11,192,814	230,295	18,741,973	111,000	20,539,643	50,266,372	2,289,565	141,923,964	269,713,610	9,017,197	7,751,54
Oregon	1,116,290	72,138	2,340,746	2,029,909	481,710	1,970	3,847		1,080,638	1,418,373	75,357	4,376,849	6,877,387	321,520	417.79
Pennsylvania	11,515,965	34,702,006	19,672,967	36,478,585	12,889,367	131,572	3,467,589		6,561,722	60,834,644	2,848,219	406,821,845	711,894,344	84,660,276	76,208,39
Rhode Island	289,030	311,957	784	157,010	669,408	142	796		77,328	941,199	89,045	66,557,322	111,418,354	80,000	59,00
South Carolina	3,010,539	7,614,207	783,610	613,593	83,252	1,342,165	34,805	224,500	156,314	1,461,980	10,665	5,400,418	9,858,981	137,000	19.88
Tennessee	6,843,278	41,343,614	6,188,916	4,513,315	1,124,337	1,205,683	21,465,452	181,842	1,389,762	9,571,069	116,582	15,595,295	34,362,636	944,829	776,29
Texas	2,964,836	20,554,538	415,112	762,663	208,383	2,188,041	59,706	350,628	1,251,328	3,712,747	18,982	5,284,110	11,517,302	150	.90
Vermont	3,073,257	1,699,882	454,703	3,602,430	5,157,428	96	72,671		3,102,137	17,844,396	1,020,669	20,329,637	32,184,606	2,494,700	905,41
Virginia	8,165,040	17,649,304	7,398,787	6,857,555	1,293,853	865,882	37,086,364	183	877,110	6,979,269	199,883	18,455,400	38,364,322	1,113,000	409,91
West Virginia	2,580,254	8, 197, 865	2,483,543	2,413,749	1,053,507	46,984	2,046,452	2	1,593,541	5,044,475	224,164	11,084,520	24,102,201	2,554,499	2,538,53
Wisconsin	5,899,343	15,033.998	25,606,346	20,180,016	6,646,129	2,220	960,813		4,090,670	22,473,036	1,287,651	41,981,872	77,214,326	737,728	510,98
The Territories	726,483	1,189,335	1,845,164	1,093,857	963,655	664	11,859	22	1,204.590	1,854,768	\$6,668	16,249,697	23,500,471	9,440,588	4,520,91
Total	188,921,099	760,944,549	287,067,656	282, 107, 157	143.337.473	21 709 824	969 735 341	2 011 996	100 100 207	514 009 698	97 316 048	\$9 118 908 760	\$4,232,325,442	\$222,384,854	4159 509 00

### PRONOUNCING VOCABULARY.

AbbeokutaAb he o koo' ta.
Aberdeen Ab er deen'.
AbyssiniaAb is sin' e a.
AcapulcoAc a pool/ co.
Acaray Ah cah ri'.
AcariAc a ree'.
Acheen
AconcaguaAc on can gwa.
Adolaida Adrolada
Aden Ah'den
Adige Ad' e ie.
Adirondack Ad e ron' dack.
Admiralty Ad' me ral ty.
Adrian A' dre an.
Adrianople A dre an o' p'l.
Adriatic A dre at' ic.
Aegean E je' an.
Afghanistan Af gan is tan'.
Aguas Canentes Ag' was Cal e en'-
Abbeokuta Ab he o koo' ta. Aberdeen. Ab er deen'. Abyssioia Ab is sin' e a. Acapalco Ac a pool' co. Acaray Ah cuh ri'. Acari Ac a ree'. Acheen. Ac heen'. Acheen. Ac heen'. Acheen. Ad heen'. Acheen. Ad heen'. Adoncagua Ac on cah' gwa. Acre A' ker. Adelaide Ad' e lade. Adie. Ad' e je. Adirondack Ad e ron' dack. Admiralty Ad' me ral ty. Adrian A' dre an. Adrianople A dre an o' p'l. Adrianic A' dre an. Afghanistan Af gan is tan'. Aguas Calientes. Ag' was Cal e en'- tes. Agulbas A gool' was
Agulhas A gool' yas.  Aisne Ane.  Aix-la-Chape.le Āks-la-Sha pel'.  Ajaceio. A yat' cho.  Akaba Ak' a bah.  Akron Ak'ron.  Alabana Al a bah' ma.
Aix-la-Chapede Aks-la-Sha nel'
Ajacejo A vat' cho.
Akaba,Ak' a bah.
AkronAk'ron.
Alabama At a bah' ma.
Aland Ah' land.
Alaska A las' ka.
Albabia Al ba' ne a.
AmanyAwl ba ny.
Athens Names Albe marle'.
Alabama Al a bah' ma. Alabama Al a bah' ma. Aland Ah'land. Alaska A las' ka. Albabia Al ba'ne a. Albabia Al ba'ne ay. Albanarle Al be marle'. Albert Nyanza Al' bert N'yahn'-
Alderney Awl der ny
Aleppo A lep' po.
Aleutian A l'vu' she an.
Albuquerque — Al boo ker' kay, Alderney. — Awl' der ny, Aleppo. — A lep' po. Aleutian — A l'yu' she an, Alexandra. — Al ex an' dra, Alexandria. — Al ex an' dre a, Algiers. — Al jeerz'. Alicante. — Al e can' te, Alleghany — Al' le gay ny, Alsace. — Al sahce', Altai — Al t' Altainaha — Al ta ma haw', Alton — Awl' ton, Altona — Al' to na, Altoona — Al too'nn,
AlexandriaAl ex an' dre a.
Algiers Al jeerz'.
AlicanteAl e can' te.
Alleghany Al' le gay ny.
AlleghenyAl' le gay ny.
AlsaceAl sance.
Alternate Alternation
Alton Awl' ton
Altona Al' to un
AltoonaAl too' na.
AmazonAm/a zon.
AmazouAm' a zon. AmeshuryAmz' ber ry.
AmherstAm' erst.
AmieusAm' e euz,
Amoo
AmoorA moor'.
AmsterdamAm' ster dam.
Anam.
Audamen Andamen
Andes Andeev
Audorm An dor'ra
AndoverAn' do ver.
Androseoggin, An dros cog' gin.
AugaraAn ga rah'.
AngleseaAng' g'l se.
Angola An go' la.
AngosturaAn gos too' ra.
Aman,
Amiens. Am' e enz. Amoo. A moo'. Amoon. A moo'. Amoori. A moor'. Amsterdam. Am' ster dam. Anam. A nam'. Ancona. An co' na. Andaman. An da man! Andes. An' deez. Andorri. An dor' ra. Andore. An' do ver. Androseoggin An dros cog' gin. Angara. An ga rah'. Anglesea. Ang' g'l se. Angola. An go' la. Angostura. An go too' ra. Angostura. An go too' ra. Angola. An go too' ra. Angara. An gos too' ra. Angara. An go too' ra. Angara. An go too' ra. Angara. An go too' ra. Annah. Ahn' hahlt. Ankohar. An ko' ber,

•
AnnapolisAn nap' o lis.
Annapolis An nap' o lis. Antalo An tah' lo. Antaretic Apt arc' tic.
AntareticApt arc' tic.
AltifostiAll te cos te.
Antiquem Antegram
AntillesAn teelz'.
Antwern Ant/wern
ApeminesAn' en ninz.
Apostle A pos' l.
Antielam. An teelam. Antielam. Antielam. Antielam. Antielam. Antielam. Antielam. Antielam. Antierp. Antwerp. Apenniaes. Ap'en ninz. Apostle. Appalachian. Ap pa lar'cbe an. Appalachiele. Ap pa lach'e. Appalachiele. Ap pa lach'e. Appalachielola. Ap pa lach'e. Appalachielola. Ap pa lach'e. Appalachielola. Ap pa lach'e. Appalachiele. Ap pa lach'e. Appalachiele. Ap pa lach'e. Appalachiele. Ap pa lach'e. Appalachiele. Ar' ab. Araguay. Ar' ab. Ar' an. Ar' al. Araguay. Ar' ar at. Ar' arat. Archangel. Ark ane'jel. Archipelago. Ark e pel' a go. Ardennes. Ar den'. Arequipa. Ah ray kee' pa. Argentine. Ar'jen tine. Argyle. Ar ghyle'. Artea. Ar tee' ca. Arica. Ar tee' ca. Arkansas. Ar kan' zas. Arnheim. Arnostook. A roos' took
Appalachee Ap pa lach' e.
AppalachicolaAp pa lach e co la.
Arch Ar' ab
AragnayAr a gway'.
AralAr' al.
Ararat
ArchangelArk ane' jel.
ArchipelagoArk e pel' a go.
Argonian Ah ray kee' na
ArgentineAr' ien tine.
ArgyleAr ghyle'.
AricaA ree' ca.
ArizonaAr i zo'na.
ArkansasAr kan' zas.
Arnheim Arn' hime,
Ascension As cen' shun.
Aronstook, A roos' took, Ascension As cen' shun, Ashantee, Ash an tee', Ashtabula Ash ta bu' la, Ash a
AshtabulaAsh ta bu' la.
AsiaA' she a.
Asia. As in a Asia a As
Assineboin As sin' e boin.
AsuncionAh soon se one'.
AtacamaAt a cah' ma.
AtacamaAt a cah' ma. AtbaraAt bah' ra.
AtenatatavaAten a la 11 a.
AtchisonAtch' e son.
Atoll A'tol
Auburn Aw' burn.
Auckland Awk' land.
AugustaAw gus' ta.
AngsburgAwgs' hurg.
AuroraAw ro' ra.
Austorlity Aws' ter lity
Australia
Atchison Atch' e son. Athabasca Ath a bas' ca. Atoll A' tol. Auburn Aw' burn. Auckland Awk' land. Augsta Awgs' harg. Aurora Awgs' harg. Aurora Awr o' ra. Au Sable O sah' b'l. Austerlitz Aws' ter litz. Australia Aws tra' le a. Auvergue O vairu'. Avignon Al veen yōng'. Avon A' von. Azof Az of.
Avignon Alı veen yöng'.
Avon
Azof
Azores A zorz.
Baalhec Bahl' hec.
Bah-el-MandebBab-el-Man' deb.
BabylonBab' e lon.
BadajosBad a hose'.
Bagdad Bag dad'
Bahama
Bahia Bah ee' a.
BahreinBah rine'.
BaikalBi'kal.
BalaklavaBal a klah'va.
Ballearic
Baalhee Bahl' hec. Bah-el-Mandeb Bab-el-Man' deb. Babylon Bah' e lon. Badajos Bad a hose'. Baden. Bah' den. Bagdad Bag dad'. Bahama Ba ha' ma. Bahia Bah ee' a. Bahrein Bah rine'. Baikal Bi' kal. Balaklava Bal a klah' va. Bailearic Bal eez'. Ballea Bal eez'. Balkan Bal kan'.
Distriction of the contract of

Balkash . Ballston Spa . Ballston Spa . Ballston Spa . Ballston Spa . Baltinoral . Baltic . Baltinore . Banca . Bangor . Bangermassin . Bankok . Barbadoes . Barbary . Barbadoes . Barbary . Barbadoes . Barbary . Barbadoes . Barbary . Barbada . Barcelona . Barregat . Baronal . Barnegat . Bassorah . Bathurst . Basle Bassorah . Bathurst . Baton Rouge . Bayonne . Bayonne . Bayonne . Bayonne . Bayonne . Bayonne . Beaufort . Bedouin . Behring . Beirut Belgium . Belgrade . Belgrade . Belgium . Belgrade . Bellefonte	Bahl kahsh'.
Ballston Spa	Bawlz' ton Spah.
Balmoral	Bai mo rai'.
Raltimore	Bawl' te more.
Banca	Bang' ca.
Bangor	Bang' gor.
Banjermassin	Bahn yer mahs sin'
Bankok	Ball Kok'.
Barbary	Bar ba uoze.
Barbuda	Bar bu' da.
Barcelona	Bar ce lo' na.
Barfleur	Bar fl'yure'.
Barbaul	Bar nowr.
Basle	Bahl.
Bassorah	Bas' so ra.
Bathurst	Bath' erst.
Baton Rouge	Bah t'n Roozh'.
Bayaria	Ba va' re a.
Rayon Sara	Bi' oo Sa' ra.
Beaufort	Bå' fort (S. C.).
Beaufort	Bo' fort (Af.).
Bedouin	Bed oo een'.
Behring	Beer' ing.
Bellit	Bi root.
Relgium	Rel' ie un
Belgrade	Bel grade'.
Bellefonte	Bel font'.
Belle Isle	Bel Ile'.
Beloit	Be loit'.
Belgium Belgrude Bellefonte Bellefonte Bellefonte Bellefonte Beloit Beloit Beloit Beloochistan Benares Bencoolen Bengare Bengazi Bengazi Bengazi Benguela Benicia Ben Lomond Ben Nevis Berbera Bertera Bertera Bertera Bertin Berne Bernin Berne Bernin Berne Besnina Berne Besnina Bengen Bilboa Bingen Birmah Birmah Birmah Birmah Birmah Birmah Birnah Biscay Blanco Blanquilla Blenheim Bogota Bojsa	Be loo chis tan'.
Bencoolen	Ben coo' len.
Benevento	Ben e ven' to,
Bengal	Ben gawl'.
Bengazi	Ben gah'ze.
Benguela	Ben ga' la.
Ren Lomond	Ren Lo' mond
Ben Nevis	Ben Ne' vis.
Berbera	Ber be'ra.
Bergen	Ber'gen.
Berlin	Ber hn'.
Bermuda	Ber mn' da.
Besaucon	Bay zahng/ söng.
Bilbon	Bil bo' a.
Bingen	Bing' en.
Birmah	Bir'ına.
Birmingham	Bir' ming ham.
Rlanco	Blang/ko
Blanquilla	Blahn keel/va.
Blenheim	Blen' hime.
Bogota	Bo go tah/.
Blenheim Bogota Bojase Bojase Bojase Bojase Bolivar Bolivia Bologna Bombay Bomfacio Boothia Bordeaux Borgue Borgue Bornlob	Bwah za'.
Bolador	Bolchab're
Bolivar	Bol' e var.
Bolivia	Bo liv' e a.
Bologna	Bo Ione' ya.
Bombay	Bom bay'.
Bonifacio	Bon e fali' cho.
Boothia	Doo the a.
Borgue	Born.
Bornholm	Born' holme.

Pomico	Day/no e
Borneo	. Dor ne o.
Bosna Serai	Bos' na Se ri'.
Bosnia	. Boz' ne a.
Bosporus	. Ros' no rus.
Roston	Roof ton
Doston	. Dos ton,
Bothma	. Both' ne a.
Boulogne	. Boo lone'.
Rowdoin	Rof d'n
Dowdon	Do d ii.
Bowling Green	Bo' ling Green.
Boyne	Boin.
Brahmanootra	Resh ma noo' tra.
Brandonhung	Dwin/day books
prandenning	. Brain den boorg.
Braunfels	. Brown' fels.
Brazil	. Bra zeel/.
Renzos	Bruss ON
Dunnan	Diaz os.
Bremen	. Brein' en.
Bremerhaven	, Bra' mer hah fen.
Breslan	Bres' law
Protorno	Due tabut
Bretagne	. Dre tame.
Breton	.Bre'ton.
Brindisi	.Brin' de se.
Borneo.  Bosnia Serai  Bosnia  Bosporus  Bosporus  Boston  Bothnia  Boulogue  Bowdoin  Bawling Green  Boyne.  Brahmapootra  Brandenhurg  Braunfels  Brazzi  Brazzi  Brazzi  Brenen  Brenen  Brenen  Bretagne  Bretdinis  Bretdinis  Bretdinis  Bretdinis  Bretokliva	Reit' t'n
Dittalli	Ditt th.
Brookline	. Brook' line.
Brooklyn	.Brook' lin.
Bruges	Broo' jiz.
Remai	Drog nil
Dining	Dioo III.
Brunn	Broon,
Brusa	Broo'sa.
Rmissels	Rms/solz
Dealers	T) Lecibi
Ducharest	, Boo Ka test.
Buda	Bu' da.
Budweis	. Bood' wise.
Ruguayoutnes	Runn na von too vo
Duenaventuta	inway naven too ra
Bueba Vista	. Bwa' na Vees' ta.
Buenos Avres	. Bo' nos Air' ez.
Ruffalo	Ruf/fe lo
- Pulling 10	. John I I III.
Bulgaria	.Bul gu' re a.
Bulgaria Burgundy	.Bul ga' re a. .Bur' gun dy.
Bulgaria Burgundy Burmah	.Bul ga' re a. .Bur' gun dy. .Bur' ma.
Bulgaria Burgundy Burmah	.Bul ga' re a. .Bur' gun dy. .Bur' ma.
Bulgaria Burgundy Burmah Bushire	.Bul ga' re a. .Bur' gun dy. .Bur' ma. .Bu sheer'.
Bulgaria Burgundy Burmah Bushire	.Bul ga' re a. .Bur' gun dy. .Bur' ma. .Bu sheer'.
Bulgaria	Brook' line. Brook' line. Brook' lin. Broo' jiz. Broo ni'. Broo' selz. Broo' selz. Broo' selz. Boo ka test'. Bn' da. Bood' wise. Bway na ven too ra Bway na vees' ta. Bo' nos Air' ez. Bn' fa lo. Bn' gun dy. Bnr' gun dy. Bn' ra. Bn sheer'.
Bulgaria	.Bul ga' re a. ,Bur' gun dy. ,Bur' ma. ,Bn sheer'. ,Ca bool',
Bulgaria. Burgundy Burmah Bushire Cahul	.Bul ga' re a, .Bur' gun dy, .Bur' ma. .Bu sheer'. .Ca hool'. .Ca' diz.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen	.Bul ga're aBur'gun dyBur'maBu sheer'Ca hool'Ca' dizCa' eu.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caermarthen	.Bul ga're aBur'gun dyBur'maBu sheer'Ca hool'Ca' dizCa' enCar mar'tben.
Bulgaria Burgundy Burmah Bushire  Calul Cadiz Caen Caermarthen Caermaryon	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca bool'. Ca' diz. Car eu. Car mar' tben. Car uni'you.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caermarthen Caernarvon	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' dix. Car mar' ton. Car mar' von.
Bulgaria Burgundy Burmah Bushire Cahul Cadiz Caen Caermarthen Caermarton Cagliari	Bul gu're a. Bur'guu dy. Bur'ma. Bu sheer'. Ca bool'. Ca' diz. Car mar' tben. Car uni' yar e.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarvon Cagliari Caicos	Bul gu're a. Bur'gun dy. Bur'mn. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' toen. Car mar' von. Cathl' yar e. Ky' cose.
Bulgaria Burgundy Burmah Bushire Cahul Cadix Caen Caernarthen Caernarthen Caernarvon Cagliari Caicos Cairo (Egypt)	Bul gu're a. Bur'guu dy. Bur'ma. Bu sheer'. Ca bool'. Ca' diz. Car mar' then. Car uar' von. Cahl' yar e. Ki' cose. Ki'ro.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Cagliari Caico	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car nar' von. Cahl' yar e. Ki' cose. Ki'ro. Ca' ro.
Bulgaria Burgundy Burmah Bushire Cahul Cadiz Caen Caermarthen Caermarthen Carnarvon Cagliari Caicos Cairo (Egypt) Cairo (U.S.)	Bul gu're a. Bur' guu dy. Bur' ma. Bu sheer'.  Ca bool'. Ca' diz. Car mar' then. Car mar' von. Cahl' yar e. Ki' cose. Ki' ro. (Ca' ro.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Cagliari Caico Caico (Caico (U.S.) Caico (U.S.)	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' eu. Car mar' then. Car mar'yon. Cahl' yar e. Ki' cose. Ki' ro. Ca' ro. Ca' ro. Cal' is.
Bulgaria Burgundy Burmah Bushire  Cahul Cadix Caen Caernarthen Caernarthen Carnarvon Cagliari Caicos Cairo (Egypt) Cairo (U.S.) Calais Calentta	Bul gu're a. Bur'guu dy. Bur'ma. Bu sheer'. Ca bool'. Ca' diz. Car mar' tben. Car mar' von. Cahl' yar e. Ki'rose. Ki'ro, Cal'ris. Cal cal' is.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caermarthen Caermaron Cagliari Cnicos Cairo (Ecypt) Cairo (U.S.) Calais Callifornia	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' von. Cahl' yar e. Ki' cose. Ki' rose. Cal' is. Cal en' ta. Cal en' ta.
Bulgaria Burgundy Burmah Bushire Cahul Cadix Caen Caernarthen Caernarthen Carnarvon Cagliari Caicos Cairo (Egypt) Cairo (U.S.) Calais Calais Calaio	Bul gu're a. Bur' guu dy. Bur' ma. Bu sheer'. Ca bool'. Ca' dix. Car mar' then. Car mar' von. Cahl' yar e. Ki' cose. Ki' ro. Ca' ro. Cul' is. Cal e for ne a.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Cnicos Cairo (Egypt) Cairo (U.S.) Calais Calentta California Callao	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' then. Car hool' yar e. Ki' cose. Ki' ro. Cal' is. Cal' en. Cal en' ta. Cal en' ta. Cal en' ta. Cal en' cose. Cal' cose.
Bulgaria Burgundy Burmah Bushire  Cahul Cadix Caen Caernarthen Caernarthen Caernarthen Cairo (Egypt) Cairo (U.S.) Calais California Callao. Callao. Cambray	Bul gu're a. Bur'gun dy. Bur'mn. Bu sheer'. Ca bool', Ca' diz. Car mar' then. Car mar' von. Cath' yar e. Ki'roo. Ca'rio. Cal'uis. Cal cal' ta. Cal lah' o. Cal lah' o.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Cnicos Cairo (Egypt) Cairo (U.S.) Calais Calentta California Callao. Cambray Cambridge	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' then. Car hool'. Ki' cose. Ki' ro. Ca'ro. Cal' is. Cal en' ta. Cal e for ne a. Cal lah' o. Cam' bray. Cam' brij.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caernarthen Caernarthen Caernarvon Cagliari Caicos Cairo (Egypt) Caliro (U.S.) Calais Callornia Callao, Cambridge Cambridge Cambridge Cambridge	Bul gu're a. Bur'gun dy. Bur'nun dy. Bur'nun. Bu sheer'. Ca hool'. Car diz. Car en. Car mar' toen. Car mar' von. Cathl' yar e. Ki' cose. Ki'ro. Ca' ro. Cal en! ta. Cal e for ne a. Cal lah' o. Cam' bray. Came' bray.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Cnicos Cairo (Egypt) Calro (U.S.) Calais Calentta California Callao. Cambray Cambridge Campagna	Bul gu're a. Bur guu dy. Bur'mu dy. Bur'ma. Bu sheer'. Ca hool'. Car'du. Car eu. Car mar' then. Car unar' von. Cahl' yar e. Ki' cose. Ki' ro. Ca'ro. Cal' is. Cal e for ne a. Cal lah' o. Cam'bray. Came brij. Cam palm'ya.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cairo (Egypt) Cairo (U.S.) Calias California Callao, Cambridge Cambridge Campagna Campagna Campagna Campagna	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn. Bu sheer'.  Ca hool', Ca' diz. Ca' en. Car mar' toen. Car mar' toen. Cathl' yar e. Ki' cose. Ki'ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cam' bray. Cam' bray. Cam pe'che.
Bulgaria Burgundy Burmah Bushire  Cahul Cadix Caen Caermarthen Caernarthen Carnarvon Cagliari Caico Cairo (Egypt) Cairo (U. S.) Calais Calentta California Callao Cambray Cambridge Campagna	Bul gu're a. Bur guu dy. Bur' mu dy. Bur han dy. Bur han dy. Bur han dy. Bur han dy. Car hool'. Car mar' then. Car mar' then. Car han' von. Cah' yar e. Ki' cose. Ki' ro. Ca' ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cam' bray. Came brij. Cam palm' ya. Cam pa' che. Can an da' gwa.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarvon Cagliari Caicos Cairo (Egypt) Cairo (U.S.) Calais Calentta California Calloo Cambridge Campagna Campagna Campagna Campagna Canaries Canaries	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' tben. Car mar' toen. Carl' yar e. Ki' cose. Ki' ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cal hah' o. Cam bray. Cam bray. Cam bray. Cam palm' ya. Cam po'che. Can an da' gwa. Can an da' gwa. Can an da' gwa.
Bulgaria Burgundy Burnnah Bushire  Cahul Cadiz Caen Caermarthen Caernarthen Carnarvon Cagliari Caicos Cairo (Egypt) Cairo (Eypt) Calio Calias Caleutta California Callao Cambray Cambridge Campagna Campagna Campagna Campagna Campagna Campagna Canaweral	Bul gu're a. Bur guu dy. Bur' mu dy. Bur han dy. Car han' ton. Car mar' ton. Car han' von. Cah' yar e. Ki' ros. Ca' ro. Cal' is. Cal e for ne a. Cal ah' o. Cam bray. Cam palm' ya. Cam palm' ya. Cam pa' dy. Can a da' gwa. Can a' riz. Can vay' e ral.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cajiari Caicos Cairo (Ecypt) Cairo (U.S.) Calais Calentta California Calloo Cambray Cambridge Campagna Campagna Camadaigua Canaries Canaveral Canaveral Canaveral	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn dy. Bur'ma. Bu sheer'.  Ca hool'. Ca' diz. Ca' eu. Car mar' tben. Car mar' toen. Carl' yar e. Ki' cose. Ki' ro. Ca' ro. Cal'is. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Cam palm' ya. Can an da' gwa. Can an da' gwa. Can an da' gwa. Can an vav' e ral. Can an vav' e ral.
Bulgaria Burgundy Burnnah Bushire  Cahul Cadiz Caen Caermarthen Caernarthen Carnarvon Cagliari Caicos Cairo (Egypt) Cairo (Egypt) Cairo (Calis) Calais Calais Calais Calaifornia Callao Cambray Cambridge Campagna Campagna Campagna Campagna Canavies Canavies Canavies Canavies Canaveral Canadahar	Bul gu're a. Bur'gun dy. Bur'mu dy. Bur'mu dy. Bur hool'. Ca' diz. Ca' diz. Car uar' then. Car mar' then. Car uar'von. Cah' yar e. Ki'ro, Ca' ro. Cal' is. Cal e for'ne a. Cal lah' o. Cam' bray. Came brij. Cam palm' ya. Cam a' riz. Can ad a' gwa. Can a' riz. Can yav'e ral. Can da har'.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caermarthen Caermarthen Cagliari Cnicos Cairo (Egypt) Cairo (U.S.) Calais Calentta California Callao, Cambridge Campagna Campagna Campagna Campagna Canaries Canardadaar Canaries Canaveral Canaveral Canadahar Cananon	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn dy. Bur'ma. Bu sheer'.  Ca hool'. Ca' diz. Ca' en. Car mar' tben. Car mar' toen. Carl' yar e. Ki' cose. Ki' ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm'ya. Can an da' gwa. Can an da' gwa. Can yav'e ral. Can da har'. Can'yon.
Bulgaria Burgundy Burmah Bushire  Cahul Cadix Caen Caernarthen Caernarthen Caernarthen Cairo (U.S.) Calio (U.S.) Calais California Callao Callao Cambridge Campagaa Campeachy Cannadaigua Canaries Canaveral Candara Candara	Bul gu're a. Bur'gun dy. Bur'mn. Bu sheer'. Ca hool', Ca' diz. Ca' en. Car mar' then. Car mar' ton. Cath' yar e. Ki' cose. Ki'ro. Ca' ro. Cal cul' ta. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Cam ad' gwa. Can ad gwa. Can ad' gwa. Can ad lan'. Can al lan'. Can' ter ber e.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Caico Cairo (Egypt) Cairo (U.S.) Calais Caleutta California Callao Cambray Cambridge Campagna Campagna Canaries Canaries Canaries Canaries Canarerbury Canarerbury Canterbury Canterbury Canterbury Canterbury Canterbury Canarerbury Canarerbury Canarerbury Canarerbury Canarerbury Canarerbury Canarer	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' then. Car mar' toon. Cahl' yar e. Ki' cose. Ki' ro. Cal' is. Cal e for ine a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Can an da' gwa. Can yav' e ral. Can yav' e ral. Can da lan'. Can' ter ber e. Can' ter ber e.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cairo (Egypt) Cairo (U.S.) Calais California Callao Cambridge Cambridge Cambridge Campagna Campeachy Canadagua Canaries Canaveral	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn. Bu sheer'. Ca hool', Ca' diz. Ca' en. Car mar' toen. Car mar' toen. Car mar' von. Cahl' yar e. Ki' cose. Ki'ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Cam pe' che. Can an da' gwa. Can an da' gwa. Can an da' gwa. Can an da' riz. Can yav'e ral. Can dan' ro. Can' ter ber e. Can' toen.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Cairo (Egypt) Cairo (Egypt) Cairo (U.S.) Calais Caleutta California Callao Cambray Cambridge Campagna Campagna Canaries Canaries Canaries Canaries Canaries Canaries Canaries Canarerbury Canterbury Canton (U.S.) Canton (U.S.) Canton (U.S.) Canton (Canton)	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' then. Car mar' toen. Car'no. Cal' is. Cal' co. Cal' is. Cal en' ta. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Can an da' gwa. Can an da' gwa. Can yav' e ral. Can da lan'. Can' ter ber e. Can' ten. Can' ter ber e. Can' ton. Can' ter ber e. Can' ton. Can' ter ber e. Can an' ton. Can' ter ber e. Can' ton.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarvon Cagliari Caico Cairo (Eyspi) Cairo (U.S.) Calais Calliornia Calliornia Calloo Cambridge Campagna Campagna Campagna Campagna Campagna Campagna Canaries Canare C	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' toen. Car mar' toen. Car mar' toen. Car mar' toen. Car'is. Ca' en. Ca' ro. Ca' ro. Ca' ro. Cal' is. Cal e for' ne a. Cal lah' o. Cam bray. Came' brij. Cam pa'ny. Came brij. Can pa're. Can an da' gwa. Can an da' gwa. Can a' ro. Can can a' ro.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Cagliari Cnicos Cairo (Egypt) Cairo (U.S.) Calais Calentta California Callao Cambray Cambridge Campagna Campagna Canadaiar Canadaia	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' diz. Ca' en. Car mar' then. Car mar' then. Car han' von. Cah'l yar e. Ki' cose. Ki' ro. Cal' is. Cal en' ta. Cal e for ne a. Cal lah' o. Cam pa'n' bray. Cam e' brij. Cam pa'n' gwa. Can a' riz. Can a' da' gwa. Can a' riz. Can yav' e ral. Can da hur'. Can' ton. Can' ter ber e. Can' ton. Can' ter ber e. Can' ton. Can' ter corn.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarton Cagliari Caico Cairo (Eyypi) Cairo (U.S.) Calais Calentta California Calloronia Cambridge Campagna Campagna Camardadagua Canaries Canareou Cape Cirareou Cape Cape Caraceou Cape Cape Caraceou Cape Caraceou Car	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn dy. Bur'mn dy. Bur'ma. Bu sheer'.  Ca hool'. Ca' diz. Ca' en. Car mar' tben. Car mar' toen. Carl' yar e. Ki' cose. Ki'ro. Ca'ro. Cal' is. Cal e for ne a. Cal lah' o. Cal hor' bray. Came' brij. Cam palm' ya. Cam pa'm' ya. Cam a' da'. Can a' da'. Can yav' e ral. Can dur' ter ber e. Can' yon. Can' ter ber e. Can' yon. Can' ter ber e. Cap' feir ar do'. Cap' feir ar do'. Cap' feir ar do'.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Caernarthen Caliari Cairo (Egypi) Cairo (Egypi) Calias Calentta California Callao Cambray Cambridge Campagna Canadajgua Canadajgua Canaries Canadahar Canadahar Canadahar Canadahar Canterbury Canton (U.S.) Canton (U.S.) Canton (Chion) Cap Girardeau Cappicara	Bul gu're a. Bur'gun dy. Bur'ma. Bu sheer'. Ca hool'. Ca' dix. Ca' en. Car mar' then. Car mar' then. Car hai' yar e. Ki' cose. Ki' ro. Cal' is. Cal en' ta. Cal e for ne a. Cal lah' o. Cam palm' ya. Cam palm' ya. Can an da' gwa. Can an da' gwa. Can an da' gwa. Can an da' riz. Can' yar' e ral. Can' ter ber e. Can' ton. Can' ter ber e. Can' ton. Can' ter ber e. Cap' te corn. Cap' te corn. Cap' te corn. Car raix' as.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Caernarthen Caernarton Cagliari Caico Cairo (Ecypt) Calio Callas Calentta Calliornia Callao Canhray Cambridge Campagna Cambridge Campagna Canaries Canaveral Canadara Canaries Canaveral Canaterbury Canton (U.S.) Cape Girardeau Capricoru Capericoru Carpericoru Carpericoru Carpericoru Caracas Cardiff	Bul gu're a. Bur'gun dy. Bur'mn dy. Bur'mn dy. Bur'mn dy. Bur'ma. Bu sheer'.  Ca hool'. Ca' diz. Ca' eu. Car mar' tben. Car mar' tben. Car mar' tyon. Cahl' yar e. Ki' cose. Ki' ro. Ca' ro. Cal'is. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Cam e' che. Can an da' gwa. Can a' da lan'. Can da lan'. Can' ter ber e. Can' ton. Can' ter ber e. Can' tan'. Can' ter ber e. Can' ton. Can' ter ber e. Can' ton. Can a' as. Car' diff.
Bulgaria Burgundy Burmah Bushire  Cahul Cadix Caen Caernarthen Caernarthen Caernarthen Caernarthen Cairo (U.S.) Calio (U.S.) Calais California Callifornia Callifornia Callao Cambridge Campagna Campeachy Canadaigua Canaries Canaveral Canadaigua Canaries Canaveral Canton (U.S.) Caton (U.S.) Calo (U.S.) Calo (U.S.) Calo (U.S.) Calo (U.S.) Carnandaigua Canaries Canaveral Canadaigua Canaries Canaveral Canton (U.S.) Cape Girardeau Capricoru Caracas Cardiff Caracas Cardiff Caracifi Carlibban	Bul gu're a. Bur'gun dy. Bur'mn. Bu sheer'. Ca hool', Ca' diz. Ca' en. Car mar' then. Car mar' then. Car har' von. Cah' yar e. Ki'roo. Ca' ro. Cal' is. Cal cal' ta. Cal lah' o. Cal lah' o. Cam' bray. Came' briy. Cam pa'n'a. Can ad' gwa. Can ad' gwa. Can a' riz. Can yav'e ral. Can' ter ber e. Can' ton. Can' te corn. Ca rak' as. Car' diff. Car' diff. Car' diff. Car' diff. Car' bee' an.
Bulgaria Burgundy Burmah Bushire  Cahul Cadiz Caen Caernarthen Caernarthen Caernarvon Cagliari Caico Cairo (Egypt) Cairo (U.S.) Calais Calentta California Callao Cambridge Campagna Campagna Campagna Campagna Campagna Canaries Canare Cape Carare Cape Carare	Bul gu're a. Bur'gun dy. Bur' man dy. Bur' man dy. Bur sheer'.  Ca hool'. Ca' diz. Ca' en. Car mar' tben. Car mar' tben. Car mar' toen. Carl' yar e. Ki' cose. Ki' ro. Ca' ro. Cal' is. Cal e for ne a. Cal lah' o. Cam' bray. Came' brij. Cam palm' ya. Can a' da'. Can a' da'. Can da lan'. Can da lan'. Can' ter ber e. Can' ter ber e. Can' ter ber e. Can' ter ber e. Cap' te corn. Car' dis'. Car' dis'. Car' dis'. Car' dis'. Car' bee' an.

	CaribeeC	ar e bee'.
	Caribee	ar lile".
	Carlsruhe C Carolina C Carolina C Carolina C Cartagena C Casbinere. C Caspian C Castile C Cattasanqua C Cattegat. C Cattegat. C Cancasian C Cancasian C Cancasian C Cancasias C C C C C C C C C C C C C C C C C C C	arlz' roo.
	CaronnaC	ar o lijna.
	CarpathianC	ar pathe an
	CartagenaC	ar ta je' na.
	Casomere	asa mere'.
	Caspian	as pran.
	Catasaugna	ut a raw one
	CatasauquaC	ab to/char
	Cattegat	atte cat
	CancasianC	aw ca <sup>7</sup> shun
	CaucasusC	aw'ca sus.
	Canana II	: and
	Cayenne R Cayuga C Celebes C Ceram S Cerigo C Cettigne C	i man'.
	CayugaC	a voo' ga,
	CelebesC	el' e beez.
	CeramS	e rahm'.
	CerigoC	er' e go.
	CettigneC	het teen' yay.
	CévennesS	ay ven'.
	Ceylon C	e lone'.
	ChagresC	liah' gres.
	Cévennes. S Ceylon C Chagres C Chaleur S	ha l'yure'.
	ChalonsS	ha lõng'.
	Champlain S	iam plane'.
	ChampaignS	nam pane'.
	Chandeleur8	ban de l'yure
	Chartres	unr' Ur.
	ChatalquaS	na taw qua.
٦.	Chattanoven G	hat ta hoo' chee-
"	Chandidae S	nat ta noo-ga
	Chinne C	ho ab'es
	Chelsen	hol/se
	Chalous S Chaulous S Champlain S Champlain S Champlain S Chandeleur S Chatauqua S Chattauqua S Chattauqua S Chattauqua S Chitauqua S Chiapas C Chelsea C Chelsea C Chelsea C Chemuitz K Chemung S Chenango S Cherbourg S Cherbourg S Cherson C Cheviot C Cheyeit C Cheyene S Chicago S Chicago S Chicago S Chicago S Chicago S Chicago S	helt' nam
	Chemnitz K	em' nits.
	ChemungS	ie mnug'.
	ChenangoS	ie nang' go.
	CherbourgS	ier' boorg.
	Chesapeake C	hes'a peak.
	Cheviot	hev'e ot.
	CheyenneSi	ti en'.
	ChicagoS	ie caw' go.
	ChichesterC	nich' es ter.
	Chicyenne S Chichester C Chicopee C Chithashua C Chillioothe C Chilloe C Chilmarazo C	he walt wat
	Chili	he/le
	Chillicothe	hil le coth'e
	Chiloe	he lo a'
	ChimharazoC	him bo rah' zo.
	Chincha C	hin' cha
	ChippewaC	hin' ne way.
	ChowanC	ho wawn'.
	ChristianiaC	hris te ah' ne a.
	CienfuegosS	e en fway' goce.
	CimarronC	im ar rone'.
	CincinnatiC	in cin nah/ te.
	Chincha C Chippewa C Chippewa C Christiania C Circinfagos S Cimarron C Cincinnati C	he oo dahd' Ray 🧪
		ahl'.
	ClevelandC	leey land.
	ClevelandC CoatzacoalcosC	o ant san co ahl'-
	0.1.22	cose,
	Coblents C	o ne na.
	Cookubamba	oob a hung ba
	Cobage Cobage	och a nami ba.
	Coimbro	o inv/ hre
	Colchester	ole/ elves ter
	Cobija C Cohlentz C Cochabamba C Cohoes C Coimbra C Colchester C Cologue C	n lone'.
	55.75.1011111111111111111111111111111111	

-		-
Calambia	Co lom/ be a	TE:
Colorado	.Col o rah' do.	E
Colombia	.Com' o rin.	EEEEEEEEEEEE
Concepcion Conemaugh	.Con sep se ane'.	E
Congaree	.Cong ga ree'.	E
Congaree Cougo Connaught	. Cong/ go.	E
Connecticut	.Con net'e cut.	E
Connecticut Consegnina Constautine	.Con sa glie' na. .Con stan teen!.	E
Constantinople	.Con stan te no' p'l.	E
Copenhagen	.Con stan ten/p'lCon stan te no/p'lCoo mas/seCo pen ha/genCo pe ah/poCo keem/boCor/do yo.	E
Copiapo	.Co pe ah' po,	E
Cordordenness	. Con the va.	E
Corea	.Co re'a, Cor foo'	E
Carinth	.Co re' aCor foo'Cor' inthCor' pus Kris' teCor ce en' tesCor se kaCor val' lisCos' ta Re' kaCo to pax' eCnv' en try.	Ē
Corrientes	.Cor' pus Kris' te. .Cor re en' tes.	F
Carsiea	.Cor' se ka.	F
Costa Rica	.Cos' ta Re' ka.	F
Cotopaxi	Co to pax'e.	F
Coventry	.Cuv' ing ton.	F
Cracow	.Co zoo mel', .Cra' co.	F
Cotopaxi. Coventry. Covington Cozumel Cracow Crimea. Croatia. Cronstadt Cuenca	.Cri me' a.	F
Cronstadt	. Cron' stat.	F
Cumana	.Kwen' sa.	F
Caraçoa	.Coo ra so'.	F
Cuyahoga	.Ki a ho/ ga. .Cooz/ co.	F
Cyclades	.Cyc la deez.	F
Cuença Cumana. Curaçoa. Cuyahoga Cuxco Cyclades Cyprus Czar	Zar.	F
Dahlanaga	Dub lon/e go	F
Dahomey	.Dah ho' may.	F
Dai Nippon Dakota	Di Nip/pone. Dah ko/ta.	F
Dalhousie	.Dal hoo'ze.	F
Dalles Dalmatia	. Dalz. . Dal ma' she a.	F
Damietta	Dam e et'ta.	F
Daubury	.Dan' ber re.	F
Dauish Dautzic	Da' nish. Dant' sik.	F
Daunbe	Dan' yoob.	F
Dardanenes	ZarrDah lon'e ga,Dah lon'e ga,Dah ho'may,Di Nip' pone,Dah hoo' ze,Dal hoo' ze,Dal hoo' ze,Dal ma' she a,Dam' peer Land,Dam' peer Land,Dan' peer Land,Dan' sik,Dan' sik,Dan' sik,Dan' sik,Dan' sik,Dan' sik,Dan' sik,Dan' sik,Dar da nelz',Dar foor',Da' re en,Darm' win,Darm' win,Darm' win,Darm' win,Darm' can,Darm' can,Del' a ware,Del' le,Del' le,Del' le,Del' hi,Dem e rah' ra,Den' mark,Dez e ret',De Moin',	F
Darieu	Da' re en.	F
Dartmouth	Dart' muth.	G
Darwin Dauphiny	Dar' win. Daw' fin e.	G
Davenport	. Day'en port.	G
Deccan	Dar ton. Dec' can.	G
Delaware	Del'a ware.	G
Delhi (U. S.)	Del'hī.	G
Demerara	. Dem e ran' ra. . Den' mark.	G
Deseret	Dez e ret'.	G
Detroit	De troit'.	G
Diamantina	De a mahn te' na. De en'.	G
Dijon	De zhōng.	G
Duiester	Ner per. Nees' ter.	G
Dominica	Dom'e ne'ca.	G G
Dorchester	Dor' ches ter.	G
Donay	Daoʻay, Dugʻlas.	G G
Donro	Doo' ro.	G
Downgiac	Do wa' je ac.	G
Drave	.Den' markDez e ret'De Moin'De Hoin'De troit'De a main te' naDe ep'De zhōngNe' perNees' terDon' e gawlDon' ches terDon' e gawlDor' ches terDon' e gawlDor' ches terDo' yoDo wa' je acDrahvDrez' denDroy' e daDron' teem Fe ordDu book'Dan bar' tonDun frees'Don' naDun dee'Doo' naDun dee'.	G
Drogheda	.Drog' e da.	$\parallel G$
Droutneim Fiora.	Dron' teem Fe ord. Du book'.	G
Duluth	Doo looth'.	G
Dumfries	Dum frees'.	G
Duna Dundee	Doo'na,	G
Dunedin	Dn ned' in.	G
Dundee	Dun more'.	G
Du Quesue	Du kane'.	G
Durham	.Dur'am.	G
Duquesue Du Quoin Durham Dusseldorf Dwina	Dus' set dorf. Dwi' na.	G
Ean Claire	. O clair'	G
Ebro	E' bro.	G
Edinburgh	Ec wa dore'. Ed' in hur ro	G
Edisto	Ed' is to.	G
Ehrenbreitstein .	E' Jipt. A ren brite' stine.	G
Eiseunch	I' der.	G
Elbe	Elh.	G
Elburz	El' ber feld. El boorz'.	G
Eleuthera	El'yoo' the ra.	G
Elsinore	. El se nore'.	G
Ems England	Emz. Ingʻ gland.	G
English	O clair'.  C' bro E' bro E' wa dore', Ed' in hur ro Ed' is to E' jipt A ren brite' stine I' der I' ze nahk El b El boorz' El Poo' the ra El yo' the ra El se nore' El se nore' Ing' gland Ing' gland.	F

Enikale	En e kah' lav	ī
Enikale Equator Erfurt Erie	E qua' tor.	I
Erie	E' re.	I
Erie Erz Erzroom Escarial Esmeralda Espinhago Esquimanx Estremadira Enfanta Enfanta Entreka Enropea Enropea Entreka Enropea Entreka Enropea Entrey Entreka Entreyean Entaw Everst Eylan Eyre	Erts. Erts room'.	I I I I I I I I I I I I I I I I I I I
Esmoralda	Es coo re ahl'.	I
Espinhaço	Es pin yas' o.	Ī
Esquimanx Estremadura	. Es' ke mo. . Es tre ma dn' ra.	I
Enbea	Yoo be' a. Yoo faw' la.	I
Emphrates	Yoo fra' teez.	l I
Enrope	Yoo'rnp.	F
Enropean	Yoo ro pe' an, Yoo' taw,	I
Everest	Ev' er est. I' baw.	I
Eyre	Air.	1
Falilin	Fah'loon.	I
Falkirk Falkland Falkland	Fal' kirk. Fawk' laud.	I
Falmonth	. Fal' muth, . Far e. bo'.	I
Faroe	Fah'ro.	1
Fayetteville	Fay'et vil.	I
Feejee	Fe'jee. Fe le cc ah'na.	I
Fernandina	Fer nan de' na.	H
Ferrol	Fer role'.	1
Fingal	Fing gawl'.	l
Finsterre	Fin is tare'. Fe ord'.	I
Flanders	Flan' derz.	I
Florida	Flor'e da.	ŀ
Fulkland Fulmonth Faribanit Farce Faribanit Farce Fayal Fayetteville Feejee Fehiciain Ferrandina Ferrana Ferrara Ferrol Fezzan Fingal Finisterre Fiord Flanders Florence Florida Font du Lac Fontainehlean Fontenoy Formosa Fort Yuma Frankfort Frederickshall Frederickton Fremout Freibung Friedland Friesland Friolsher Frobisher Frohena Frobisher Freh-chau Fruhama Gaeta	Fond dn Lac'.	I
Fontainehleau	.Fon taue hlo'. .Fon te noi'.	I
Formosa	For mo'sa.	I
Frankfort	Frank' fort.	I
Frederickton	Fred'er iks nawl. Fred'er ik ton.	I
Freiburg	Fre' mont. Fri' burg.	l I
Friedland	Freed' land.	Î
Frio	Fre' o.	
Fuh-chau	. From ish er. . Fir chow'.	I
Fnjiyama	. Fu je yah' ma.	I
Gaeta Galapagos Galatz Galicia Gallinas Gallipoli Gallipolis Galveston Galway	Gah a' ta.	I
Galatz	.Ga lats'.	I
Gallinas	. Ga lish' e a. . Gal le' nas.	1
Gallipoli	.Gal lip' o le. .Gal li po lees'.	1
Galveston	Gal' ves ton.	1
Galway	.Gam' jeez.	]
t#ee10110	Zhee long'.	1
Genesee	Gen e see'.	1
Geneva	tre ne va.	1
Genoa	.Gen' o a. .Jor' je a.	1
Glunts	.Ghi' ser. .Gawts.	1
Chant	Chant	1
Gihraltar. Gila Gilead	.Ile' la.	1
Gilolo	.Ghe lo' lo.	1
Girardeau	.Gir ar do'. .Zhe rōude'.	1
Glasgow	Glas' e er.	1
Gironde Glacier Glasgow Glenmore Gloncester Gobi Goderich Gondokoro	Glen more'.	
Gobi	. Gos ter. . Gos be.	6
Gondokoro	.God'rich. Gan do ko'ro.	
Gondokoro Gonzales Gosheu		
Gosheu	.Go' shen. .Go'tah. .Goth' land. .Got' ten boorg. .Get' ting en. .Grah' ce ahs ah De'-	0.
Gottenburg	Got' ten boorg.	9
Gracias a Dios	. Get' ting en. . Grah' ce ahs ah De'-	2.0.0
Granada	USC.	
Gravelines	.Grahy leen'	1
Greenwich	.Grin'ij.	9
Grenada	.Gre nah' da, .Grik' wa, .Gron' ing en, .Gwah da la hah' ra, .Gaw da loop', .Gwaw dal quiv' ir, .Gwah da ah' na	
Groningen	.Gron'ing en. .Gwah da la luh'ra	5
Gnadalape	. Gaw da loop'.	
Guadiana	.Gwaw dai quiv' ir. .Gwah de ah' na.	]
Guanahani	.Gwah na hah' ne. .Gwah na hwah' to.	]
Gnardafui	.Gwar da fwe'.	1
Guayama	.Gwi ah' ma.	1
Gnaymas	.Gwi' mas.	1
Guiana	Gwaw dal quiv' ir. Gwah de ah' na. Gwah na hah' ne. Gwah na hah' ne. Gwar da fwe'. Gwah te mah' la. Gwi ak heel'. Gwi ak keel'. Gwi akeel'. Gheni' ze. Ghe ah' na. Ghin' ne.	
		1
Haarlem		Î

llagne Ilanium Ilalie. Ilanium Ilalie. Ilanium Ilalie. Ilaniumrefest Ilani-chan Ilaniumrefest Ilani-chan Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilaniumrefest Ilarieumrefest Ilarieumrefest Ilarieumrefest Ilavereill Ilarieumrefest Ilavereill Ilarieumrefest Ilarieumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilelaiumrefest Ilereford Illereford	11āg.
Hainan	Hi nan'. Hal' le.
Hamburg Hammerfest	Ham' burg. Ham' mer fest.
Hanribal	Han'e bal.
Harfleur	Har fl'yure'.
Harz Hatteras	Harts.
Havaua	lla van'a. Ha' ver il.
Havre de Grace	Hah' v'r. Hah' v'r de Grahce'.
Hayti	Ha Wi'e. Ila'te.
Ilecla	Hed iaz'.
Heidelberg Helena	Hi' del berg. He le' na.
Heligolaud	Hel' e go land. Hel' sing forz.
Henlopen	Her vet sloose. Hen lo' pen.
Herzegovina	Hert'se go've na
Hesse	Hess. Him a li'a.
Hindoo Koosh Hindostan	Hin' doo Koosh'. Hin dos tau'.
Hoang-Ho	Ho ang-Ho'. Ho bo' ken.
Hogue	Ho di' da. Hōg.
Hohenzollern	Ho hen tsol' lern.
Hong Kong	Hong Kong'.
Hoosac (Tunnel) Hoosic (River)	Hoo' sac. Hoo' sic.
Horicon	Hor'e con. Ho'ton.
Houlton	Hole' ton. Hoo sa ton'ic.
Hne	Hao a'.
Hungary	Hung'ga re.
Hyderabad	Hi der a bad'.
Idaho	I' da ho. Il li noi'.
Ilmen	Il men'. E nah' gwa.
Indian	In' de an.
Indianapolis	In de an ap' o lis In' diz.
Ingolstadt	Ing' gol stat. Ins' prook.
Interlachen Inverary	In ter lah' ken. In ve ra' re.
Inverness	In ver ness'. I'o wa.
Iran	E rahn'.
Irkontsk	Ir kootsk'. I' ron ton.
Iroquois	Ĭ ro kwoi'. Ir' tish.
Islay (Scotland)	E'zer. I'lay.
Ismail	Is mah eel'.
Ispahan	Is pa han'. Ist' mus.
Inverness lowa lowa lpswich tran lreland lreland lrkontsk lrouton lroquois trtish lser lslay (Scotland) lslay (S. A.) lsmail lsmail lsmailia lspahan lsthmus tasea lthaea	I tas' ca. Ith' a ca.
Ivry	E' vry.
Jaen	Ha lah' pa.
Jamiica Japan Jassy Java Java Jedburgh Jene Jersey Jersey Jersslcm Jesso Jiddah Joannes Johannishnrg Joliet Juan Fernandez Juan Juan	Ja pan'. Yas'sy.
Java Jedburgh	Jah' va. Jed' bur o.
Jena Jersey	Ya'na. Jer'ze.
Jesso	Je roo' sa lem. Yes' so.
Joannes	Zha ah' neez. Yo hahn' is herg.
Joliet	Jo' le et. Joo'an Fernan'dez.
Jungfran	Yoong' frow.
Jura	Joo'ra.
Kalahari	Kah la hah' re. Kal a ma zoo'
Kamtebatka Kanawha	Kam tchat' ka. Ka naw' wa.
Kankakee Kano	Kan kaw' ke. Kah na'.
Kalahari	Kan' zas. Kah rah Ko' rum.
Kashgar	Kash gar'. Kash kas' ke a
Katahdin Kearney Kearsarge	Ka tah'din. Kar'ne.
Kearsarge	Keer' sarj.

		-
Kelat	Ke lat'.	Ma
Kennehee	Ken ne bec'.	Ma
Kenobunk Kentucky Keokuk Keokuk Kewaunce Kewaydin Khan Khanate Khautoou Khedive	Ken o'sha.	Ma
Keokukl	Ke' o kuk.	Ma
Kewaunce	Ke waw' nce. Ke wa' din.	Ma
Khan	Kawn,	Ma Ma
Khartoom	Kar toom'.	Ma
Khedivel Khiva	Ka' div. Ke' va.	Ma Ma
Khartoom Khedive. Khiva. Khiva. Khiva. Khorassau Kioderminster Kiel Kiel Kiel Kiel Kiel Kiel Kiel Kildare Kildare Kildare Kildare Kildare Kildare Kildare Kildare Kildare Kingkitao Kiolen Kioto Kion Kioto Kishenev Kissingen Kittanuing Kittatinny Kittatinny Kittatinny Kittatinny Kittatinny Kittatinny Kittery Kiushin Kamath Kodiac Kokono Koingsgrätz Kingsgrätz Knen Lain Kurdistan	Ko ras san'. Kid' der min ster	Mai Ma
Kiel	Keel.	Ma
Kildare	Kil dair'.	Ma Ma
Kilima Njaro1	Kil e mahn jah ro'. Kil ken' ny.	Ma Ma
Killaruey	Kil lar'ney.	Ma Ma
Kingktao	Keer' len.	Ma
Kioto	Ke o' to. " Kish en ev'.	Mai
Kissingen	Kiss' ing en.	Ma: Ma:
Kittatinuy	Kit ta tin'ny.	Ma
Kittery	Koo'shoo.	Ma: Ma:
Klamath	Klah' mat. Ko' de ahk.	Ma:
Kokomo	Ko' ko mo.	Ma
Königsgrätz	Ka' nig grets.	Ma: Ma:
Kuen Lun	Kwen Loon'. Koor dis tan'.	Ma
Knrile	Koo' reel.	Ma: Ma:
Labrador	Lab ra dore'.	Ma
Labrador Laccadive Lackawanna La Crosse	Lac' ca div. Lack a waw'na.	Ma
La Crosse	Lah Cross'.	Ma Ma
Ladrone	La drone'.	Ma
Lagoon	La goon'.	Ma Ma
Lagas La Guavra	Lah' gose, Lah Gwi' ra,	Ma Ma
La Hogue	La Hōg'.	Me
La Crosse Ladoga Ladorne La Fayette Lagoon Lagoon Lagos La Guayra La Hogue Lammermoor Lanark Lancaster	Lan' ark.	Me
Landau	Lan daw'.	Me Me
Languedoc	Lann gne dok".	Me Me
LansingLaos	Lah' os.	Me
La Puz Lapeer	La peer'.	Me Me
Lapeer La Plata Laramie. Laredo La Rochelle La Salle. Lassa Lausanne Leuvenworth Leghorn Lehigh Leiester Leinster. Leipsic.	Lah Plah'ta. Lār'a me.	Me Me
Laredo	La ra' do.	Me Mia
La Salle	Lah Sahl'.	Mic
Lassa	Lans' sa. Lo zan'.	Mic
Leavenworth	Lev'en worth.	Mil Mil
Lehigh	Le'high.	Mil
Leinster	Lin'ster.	Min Min
Leipsic Leith	Lipe' sic. Leeth.	Mid
Lemberg	Lein berg.	Mis Mis
Lena Leon Levant Lewes Lewes Leyden Lihyan Liege	Le' on.	Mis
Lewes	Le vant'. Lä' is.	Mit Mo
Leyden	Li' d'n. Lib' e an	Mo Mo
Liege	Leezh.	Mo Mo
LilleLima	Lee' ma.	Mo
Limburg	Lim' burg. Lim' er ick.	Mo Mo
Limoges	Lim ōzlı'.	Mo Mo
Lippe	Lip' pe.	Mo
Lille Lima Limburg Limburg Limerick Limoges Lipari Lippe Lisbon Lin Kiu Llano Estacado	Liz' boii. Le oo Ke oo.	Mo Mo
Llano Estacado l	L'yah'no Estakah'- do.	Mo Mo
Lianos Estacado Lianos Loango Lobos Loch Leven Loch Lounond Lodi Lofoden Loire Lombardy Lomond Lono Lop Nor Loraine Los Angeles Los Roques Lough Erne Louisiann Louisiann Louisiann Louisiann Louisiann Louisiann Louisville	L'yah' nōs.	Mo Mo
Lobos	Lo' bose.	Mo
Loch Leven	Lok Lev'en. Lok Lo'mond.	Mo
Lodi	Lo' de.	Ma Ma
Loire	Lwar.	Mu
Lombardy Lomond	Lom' bar dy. La' mond.	Му
London	Lun' don. Lon' Nor.	Na Na
Lorraine	Lor rain'.	Na
Los Roques	Los Ro' kes.	Na:
Lough Erne	Log Ern'. Loo' is berg.	Na Na
Lonisunrg Lonisiana Lonisville Lowell Lubeck Lucerne	Loo ee ze ah' na.	Na:
Lowell	Lo' el.	Nat Nat
Lucerne	Loo sern'.	Nat
Lucknow Lucknow Lutzen Lutzen Luxemburg Luzerne Luzon Lycoming Lycoming	Luck' no. Loot' zen.	Na
Luxemburg	Lux'em burg.	Ne
Inzon	Loo zon'.	Ne
Lycoming	Ly com'ing. Li'onz.	Ne
Macassar		Ne

	Mackenzie	. Mac ken'ze.
	Mackenzie Mackinaw Macou Madeira Madrid Madrid Maelstrom Magdalena Magdeburg Maimatchin Malabur Malacca Malaga	. Mack e naw'.
	Macon	. Ma' con.
	Madena	Ma de ra.
	Madrid	.Ma dreed'.
	Maelstrom	.Mayl'struin.
	Magdalena	. Mag da le' na.
	Maimatchin	.Mi ma cheen'.
	Malabar	.Mal a bar'.
	Malacca	. Ma lac' ca.
	Malay	. Mar a ga, . Ma lav'.
	Malaya	. Ma la' ya.
п	Malaysia	. Ma la' she a.
	Malden	Mawl' den.
<b>′.</b>	Malacca Malaga Malaga Malaya Malayaa Malaysia Malden Malta Managna Manayuuk Manhattan	. Ma nah' gwa.
	Manayunk	.Man a ynuk/.
	Manhattan	Man nat' tan.
	Manistee	.Ma nis' te.
	Manitoba	. Man e to ban.
	Manitoba Manitowoc Manitowoc	Man e too mi.
	Mantchooria	.Man tchoo' re a.
	Mantna	.Man' tu a.
	Maracaybo	Ma ra Ki' bo.
	Marengo	.Ma ren'go,
8	Margarita	.Mar ga re' ta.
	Marinosa	Mar'e on.
	Marmora	.Mar' mo ra.
	Marquette	.Mar ket'.
	Martinique	Mar tin eek'.
	Marsemes	. Mas ca rene'.
	Massillon	.Mas' sil lon.
	Matapan	.Mat a pan'.
	Matta Grosso	. Malit' to Gros' so.
	Mauch Chunk	.Mawk Chunk'.
	Maumee	. Maw mee'.
	Manritins	Mow na Lo a. Maw rish' e us.
	Mayence	. Mah yahnce'.
	Mazatlan	.Maz at lan'.
	Mediterraneau	Med e ter ra' ne an
	Melanesia	. Mel a ne' she a.
	Melbourne	. Mel' burn.
	Menai.	Men' î.
	Mendocino	.Men do se' no.
	Mendoza	.Men do' za.
	Mequinez	Mek' e nez. Mer' e da
	Merthyr-Tydvil	. Mer'thyr-Tyd'vil.
	Messina	
	71	. Mes se' na,
	Meuse	. Mes se' na. . Mnze. . Mi am' e
	Meuse	. Mes se' na, . Mnze, . Mi am' e, . Mish' e gan,
	Meuse	. Mes se' na. . Mnze. . Mi am' e. . Mish' e gan. . Mich e le mack' e-
	Meuse. Miami. Michigan Michilimackinae.	. Mes se' na. Mnze. Mi am' e. Mish' e gan. Mich e le mack' e- nac. Me kah' do.
	Meuse Miami Michigan Michilimackinae. Mikado Milan	. Man e too lin Man e too woc' Man tchoo' re a Man tra ki'bo Ma ran ham' Ma ren' go Mar ga re' ta Mar' mo ra Mar' mo ra Mar' mo ra Mar ket' Mar tin eek' Mar tin eek' Mar sallz' Mas ca rene' Mas 'sil lon Mat ta wom' keg Mat' to Gros' so Mawk Chunk' Maw mee' Mow' na Lo' a Maw mish' e us Maw at lan' Me de'na Med e ter ra' ne an Mel' bin'n Men do se' no Men do se' no Men do se' no Men' chy-r'yd' vil Mes se' na Mer' thyr-Tyd' vil Mes e gan Mish' e gan.
	Meuse	. Mes se' na, Mnze, Mi ann' e, Mish' e gan, Mich e le mack' e- nac, Me kah' do, Mil' an, Mil waw' ke, Mil da nah' o,
	Meuse. Miami Michigan. Michigan. Michilimackinae. Mikado Milan Milwankee Mindanao Mindoro	. Mes se' na,Mnze,Mi ann' e,Mish' e gan,Mich e le mack' e- nac,Me kah' do,Mil' an,Mil waw' ke,Min da nah' o,Min do' ro,
	Meuse Mlami Michigan Michilimackinae. Mikado Milwan Milwankee Mindanao Mindoro Mindoro Mindelon	. Mes se' na,Mnze,Mnze,Mi am' e,Mish' e gan,Mich e le mack' e- nac,Me ha' do,Mi' an,Mi' an,Mi waw' ke,Mi da nah' o,Min do' ro,Mik e lon',Min e seke'
	Meuse Mlami Michigan Michilmackinae. Mikado Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisanoi	. Mes se' 111, . Mnze, . Mi anv' e, . Mi anv' e, . Mish' e gan, . Mich e le mack' e- 111c Me kah' do, . Mi' an, . Mi waw' ke, . Min da nah' o, . Min do' ro, . Mik e lon', . Mis sis' kwoi.
	Meuse Mlauni Michigan Michilmackinae. Mikado Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi	. Mes se' na, . Mnze, . Mi an' e, . Mi an' e, . Mish' e gan, . Mich e le mack' e- nnc Me kah' do, . Mil' an, . Mil waw' ke, . Min da nah' o, . Min do' ro, . Mik e lon', . Mir a me she', . Mis so long' ghe,
	Meuse Miami Michigan Michigan Michilmackinae Mikado Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi	. Mes se' na, . Mnze Mi ann' e, . Mish' e gan, . Mich e le mack' e- nac Me kah'do, . Mil' an, . Mil waw' ke, . Min da nah' o, . Min do' ro, . Mir a me she', . Mis sis' kwoi, . Mis soo' re, . Mis soo' re, . Mis coo' re,
	Meuse Miami Michigan Michilimackinae. Mikado Milan Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi	. Mes se' na,MnzeMi ann' e,Mish' e gan,Mich e le mack' e- nacMe kah' do,Mil' an,Mil waw' ke,Min da nah' o,Mik e lon',Mis so long' ghe,Mis soo' re,Mis soo' re,Mis lon',Mis soo' re,Mis soo' re,
	Meuse Mlami Michigan Michilimackinae. Mikado Milan Miwankee Mindanao Miquelon Miramichi Missisquoi Missolonghi	. Mes se' 111, . Muze Mi ann' e Mi ann' e Mish' e gan Mich e le mack' e- nnc Me kah' do Mil' an Mi waw' ke Min da nah' o Min do' ro Mir a me she' Mis sei' kwoi Mis so long' ghe Mis de' ne Mis de' ne Mis beel' Mo' ka.
	Meuse Mlami Michigan Michilimackinae. Mikado Milwan Miwankee Mindanao Miquelon Miramichi Missisquoi Missolonghi	. Mes se' 11a, . Mnze Mi anv' e, . Mi anv' e gan, . Mish' e gan, . Mich e le mack' e- nnc Me kah' do Mil' an Mi maw' ke, . Min da nah' o, . Min do' ro, . Mir a me she', . Mis so' kwoi, . Mis so long' ghe, . Mit e le' ne, . Mo' ka, . Mo' ka, . Mo do re', . Mo' ka, . Mo do re'.
	Meuse Mlauni Michigan Michilmackinae. Mikado Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Missouri Miyleue Mobile Mocha Mogadore Moinceas Mongol	. Mes se' na, . Mnze, . Mi anı' e, . Mi anı' e, . Mish' e gan, . Mich e le mack' e- nnc Me kah' do, . Mil' anı . Mil wnw' ke, . Min da nah' o, . Min do' ro, . Mir a me she', . Mis sis' kwoi, . Mis soo' re, . Mi e' ne Mo' ka, . Mog a dore', . Mo' ka, . Mog a dore', . Mo' he' caz, . Mon' gol,
	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Milan Milwankee Mindanao Miquelon Miramichi Missisquoi Missolonghi Missolonghi Misvolonghi Misona Midulanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Monao Mon	. Mes se' na, . Mnze Mi an' e, . Mish' e gan, . Mich e le mack' e- nac Me kah'do, . Mil' an, . Mil waw' ke, . Min do ro, . Mir a me she', . Mis so long' ghe, . Mis soo' re, . Mio e' ne Mo beel', . Mo 'ka, . Mo g a dore', . Mo 'ne' caz, . Mon' gol, . Mo non ga he'la,
	Meuse Miami Michigan Michilimackinae. Mikado Milan Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Missonri Miylene Mobile Mocha Mogadore Monagol Monogal Montank Montank Montank Montank	. Mes se' na, . Mnze Mi ann' e, . Mish' e gan, . Mich e le mack' e- nac Me kah'do, . Mil' an, . Mil waw' ke, . Min da nah' o, . Min do' ro, . Mir a me she', . Mis sis' kwoi, . Mis so long' ghe, . Mis soo' re, . Mo beel', . Mo beel', . Mo 'ka, . Mo na' gol, . Mo non ga he'la, . Mon tah' na, . Mon tah' na,
	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Milan Miwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Mootau Montauk Montauk Montauk Montauk Montauk	. Mes se' 111, . Mnze Mi ann' e Mi ann' e Mish' e gan Mich e le mack' e- nnc Me kah' do Mil' an Mi maw' ke Min da nah' o Min do' ro Mir a me she' Mis so' kwoi Mis so long' ghe Mis te le' ne Mo beel' Mo' ka Mog a dore' Mo lun' gol Mo non ga he' la Mon tawk' Mon tawk' Mon tawk' Mon tawk' Mon tawk' Mon tawk'.
	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milua Milwankee Mindanao Miquelon Miramichi Missisquoi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Monocas Mongol Monongahela Montauk Montauk Monteegro Monterey	. Mes se' 111, . Mnze Mi ant' e, . Mi ant' e gan, . Mish' e gan, . Mish' e gan, . Me kah' do, . Mi' an Mi waw' ke, . Min da nah' o, . Min do' ro, . Mir a me she', . Mis se's kwoi, . Mis soo' re, . Mit e le' ne Mo beel', . Mo he' caz, . Mon te da, . Mon tawk', . Mon te ray . Mon te ray .
	Meuse Miami Michigan Michilmackinae. Mikado Milan Midanao Milan Midanao Miquelon Miquelon Missisquoi Missisquoi Missolonghi Missolonghi Mispouri Miyene Mohal Mogadore Monneas Mongol Monnogahela Montauk Montauk Montauk Monteuegro Montevideo	. Mes se' 111, . Mnze Mi an' e, . Mi an' e, . Mish' e gan, . Mich e le mack' e- nne Me kah' do Mil' an Mi wnw' ke . Min da nah' o, . Min do' ro Mir a me she', . Mis sis' kwoi, . Mis so long' ghe, . Mis so long' ghe, . Mis so long' ghe, . Mis he' caz Mon beel', . Mo' ka, . Mog a dore', . Mo hne' caz Mon he' caz Mon tawk', . Mon tawk', . Mon te na' gro, . Mon te ray', . Mon te ray', . Mon te vid' e o, . Mon te ro' se.
	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Milan Milwankee Mindanao Miquelon Miramichi Missisquoi Missolonghi Missolonghi Missolonghi Missolonghi Missolonghi Mosolonghi Moocha Moola Moodha Moogadore Moinceas Mongol Monongahela Montania Montania Montania Montania Montania Montania Montania Montania Monteuegro Monterey Montevideo Montmorenci Montpelier	. Mes se' na, . Mnze, . Mi an' e, . Mi an' e, . Mish' e gan, . Mich e le mack' e- nnc Me kah' do, . Mil' an, . Mil waw' ke, . Min da nah' o, . Min do' ro, . Mik e lon', . Mir a me she', . Mis soo' re, . Mis soo' re, . Mo 'ka, . Mo 'de' ne, . Mo beel', . Mo lne' caz, . Mon' gol, . Mon tah' na, . Mon tah' na, . Mon te na' gro, . Mon te vid' e o, . Mont mo ren' se, . Mont me' re, . Mont mo ren' se, . Mont me' yer,
1'-	Meuse Miami Michigan Michilimackinae. Mikado Milan Milan Milan Milwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Mocas Mongol Moncas Mongol Monnogahela Montana Montana Montana Montana Monterey Montevideo Montmorenci Montreal	. Mes se' 111, . Muze Mi ann' e Mi ann' e Mish' e gan Mich e le mack' e- nnc Me kah' do Mil' an Mi maw' ke Min da nah' o Mik e lon' Mir a me she' Mis so' kwoi Mis so long' ghe Mis te le' ne Mo beel' Mo' ka Mog a dore' Mo lne' caz Mon' gol Mo non ga he' la Mon taw'k' Mon te na' gro Mon te ray' Mon te vid' e o Mont mo ren' se Mont re awl' Mont re awl'.
·-	Meuse Miami Michigan Michilmackinae. Mikado Milan Miwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Moocas Mongol Moongadore Montauk Montauk Montauk Montauk Montauk Montauk Montenegro Monterey Montevideo Montmorenci Montpelier Montpelier Montreal Morea Moscow	. Mes se' 111, . Mnze Mi ann' e Mi ann' e Mish' e gan Mich e le mack' e- nnc Me kah' do Mil' an Mi maw' ke Min da nah' o Min do' ro Mir a me she' Mis soi's kwoi Mis soo're Mit e le' ne Mo beel' Mo 'ka Mo ga dore' Mo non ga he' la Mon tawk' Mon tawk' Mon te ray' Mon te ray' Mon te ray' Mon te ray' Mont peel' yer Mont peel' yer Mont pee' Mont pee' Mont peel' Mon's co.
·-	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Miwankee Mindanao Miquelon Miramichi Missiquoi Missiquoi Missolonghi Mosola Montauk Montauk Montauk Montauk Monterey Monterey Monterey Monterey Monterey Monterey Montpelier Montpelier Montpelier Montpelier Monterel Morea Moscow Mosco	Mess se' 111, Mnze. Mi ant' e, Mi ant' e, Mi ant' e, Mish' e gran, Mich e le mack' e- nne. Me kah' do, Mit' an. Mi wnw' ke, Min da nah' o, Min do' ro, Mir a me she', Mis sis' kwoi, Mis so long' ghe, Mis so' re, Mo' ka, Mog a dore', Mo' ka, Mog a dore', Mo' ha, Mog a dore', Mo' ha, Mog a dore', Mo' ha, Mog a dore', Mo hne' caz, Mon' tawk', Mon tawk', Mon te na' gro, Mon te ray', Mon te ray', Mon te vid' e o, Mont peel' yer, Mont peel' yer, Mont peel' yer, Mon re' a, Mos' co, Mo s' c
1'-	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Milan Milwankee Mindanao Milwankee Mindoro Miquelon Missolonghi Mosela Montana Montana Montana Montana Montana Montana Montenegro Monterey Montepeier Montpelier Montreal Moseo Mosel Monte Mosel Montel Mosel Montel Mosel Montel Mosel Montel Mosel Montel Montel Mosel Montel Montel Mosel Montel Montel Mosel Montel Montel Montel Mosel Montel Montel Montel Mosel Montel Montel Montel Montel Montel Montel Montel Mosel Montel Mon	Mess se' na, Mnze, Mi an' e, Mi an' e, Mi an' e, Mish' e gan, Mich e le mack' e- nnc. Me kah' do, Mil' an, Mil waw' ke, Min da nah' o, Min do' ro, Mik e lon', Mir a me she', Mis soo' re, Mis soo' re, Mo' ka, Mog a dore', Mo' ka, Mog a dore', Mo he' caz, Mon' gol, Mo non ga he' la, Mon tawk', Mon te na' gro, Mon te ray', Mon te ak', Mon te ak', Mon te ak', Mon te ak', Mon' gol, Mo' gol,
·-	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Missolonghi Mosola Montal Moota Mongol Mooneas Mongol Monnogahela Montaua Montaua Monterey Monterey Monterey Monterey Monterei Montreal Moscow Mosel Mont Desert Montzouk Mozambique	Messe' na, Mnze, Mi an' e, Mi an' e, Mi an' e, Mich e le mack' e- nnc. Me kah' do, Mil' an, Mil waw' ke, Min da nah' o, Min do' ro, Mik e lon', Mis so long' ghe, Mis soo' re, Mo 'ka, Mo 'ga dore', Mo 'ha, Mo non ga he' la, Mon tah' na, Mon tah' na, Mon te na' gro, Mon te vid' e o, Mont re aw', Mon te aw',
\*-	Meuse Miami Michigan Michigan Michigan Michigan Michilimackinae Mikado Milan Milan Midun Milan Mission Montau Montauk Montauk Montauk Monterey Monterey Monterey Montereide Montmorenci Montpelier Montreal Morea Moscow Mossel Mont Desert Monrzouk Mozambique Minich Millan Milla	Mess se' 111, Mnze. Mi ann' e. Mi ann' e. Mi ann' e. Mish' e gan. Mich e le mack' e- 111 nac. Me kah' do. Mil' an. Mi waw' ke. Min da nah' o. Min' a nac she'. Mis sis' kwoi. Mis so long' ghe. Mis so'r kwoi. Mis so long' ghe. Mis ele' ne. Mo' ka. Mog a dore'. Mo' ka. Mog a dore'. Mo lne' caz. Man' gol. Mo nawk'. Mon tawh'. Mon taw's. Mon te na' gro. Mon te ray'. Mon te vay'. Mon te vay'. Mon te aw'. Mon te' a. Mos' co. Mo zel'. Mom Dec' ert. Moor zook'. Mo zam beek'. Mu' nik,
·-	Meuse Miami Michigan Midanao Migal Midanao Mindoro Miquelon Miramichi Missisquoi Missolonghi Mosel Moncas Mongol Monorgahela Montauk Montauk Montauk Montauk Montauk Montauk Monterey Montevideo Montmorenci Montpelier Montpelier Montpelier Montpelier Moscow Mosel Moscow Mosel Moscow Mosel Morzouk Mozambique Minicau Mickinghi	Messe' 111, Mnze. Mi ant'e. Mi ant'e. Mi ant'e gan, Mich e le mack'e- nnc. Me kah'do. Mil' ant. Mi waw' ke. Min da nah'o. Min' ant. Mis ant's kwoi. Mis sis' kwoi. Mis soo' re. Mis es' kwoi. Mo hee'. Mo hee'. Mo hee'. Mo hee'. Mo hee'. Mo non ga he'la. Mon tawk'. Mon te ray'. Mon te vay'. Mon' min. Mon
1'-	Meuse Miami Michigan Michigan Michilimackinae. Mikado Milan Miwankee Mindanao Mindoro Miquelon Miramichi Missisquoi Missisquoi Missolonghi Montecas Mongadore Moniccas Mongol Monongahela Monccas Mongol Monongahela Montauk Montauk Montauk Monteuegro Montauk Montevideo Montmorenci Montpelier Montpelier Montpelier Montpelier Montpelier Montpelier Montpelier Montpelier Moscow Mosel Mosel Monambique Moscow Mosel Monambique Missolum Missolum Missolum Mysore	. Mes se' 111, . Mnze Mi anu' e, . Mi anu' e, . Mish' e gan, . Mich e le mack' e- nne Me kah' do Mil' an Mi waw' ke Min da nah' o, . Min do' ro Mir a me she', . Mis sis' kwoi, . Mis sis' kwoi, . Mis soo' re Mis soo' re Mo' ka Mog a dore', . Mo' ka Mog a dore', . Mo ne' caz Mon' tah' na Mon tawk', . Mon te ray' Mon te ray' Mon te ray' Mon te vid' e o, . Mon' peel' yer Mu' peel' yer.
·-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Molnecas Mongol Monneas Mongol Montana Montana Montana Montana Monterey Monterey Monterey Monterey Monterey Monterei Monterei Montreal Morea Montreal Morea Moscow Mont Desert Monrzonk Mozambique Monicat Muskingun Mysore	. Mil waw' ke Min da nah' o Min da nah' o Min da nah' o Min a me she' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mo beel' Mo' ka Mog a dore' Mo inc' caz Mon' gol Mo non ga he'la Mon nah' na Mon tah' na Mon te ray' Mon te ray' Mon te ray' Mon te e awl' Mon te awl' Mon te awl' Mor zook' Mor zook' Mo zel' Mo zel' Mo za' Mo za' Mo za' Mo za' Mo sa' Mu' nik Mus cat' Mas king' gum My sore'.
1'-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miguelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montana Montana Montana Monterey Monterey Monterey Monterey Monterey Monterei Monterei Monterei Monterei Monterei Monterei Monterei Monterea Montreal Morea Moscow Mosel Mont Desert Monzouk Mozambique Manich Misscat Muskingum Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
\*-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
(*-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
·-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
·-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
·-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindaro Miquelon Missisquoi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Moscow Moscel Monterei Moscow Moscel Monterei	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Monterei Monterei Monterei Monterei Monterei Montereal Morea Monteal Morea Moscow Mosel Mont Desert Monzouk Mozambique Manich Misseat Muskingum Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Monterei Monterei Monterei Monterei Monterei Montereal Morea Monteal Morea Moscow Mosel Mont Desert Monzouk Mozambique Manich Misseat Muskingum Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Monterei Monterei Monterei Monterei Monterei Montereal Morea Monteal Morea Moscow Mosel Mont Desert Monzouk Mozambique Manich Misseat Muskingum Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
/-	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Moinceas Mongol Monneas Mongol Montana Montanak Monteuegro Monterey Monterey Monterey Monterey Monterei Monterei Monterei Monterei Monterei Monterei Montereal Morea Monteal Morea Moscow Mosel Mont Desert Monzouk Mozambique Manich Misseat Muskingum Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M
· -	Milwankee Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Mindanao Missolonghi Missolonghi Missolonghi Missolonghi Missouri Mitylene Mobile Mocha Mogadore Molnecas Mongol Monneas Mongol Montana Montana Montana Montana Monterey Monterey Monterey Monterey Monterey Monterei Monterei Montreal Morea Montreal Morea Moscow Mont Desert Monrzonk Mozambique Monicat Muskingun Mysore	. Mil waw' ke Min da nah' o Min do' ro Mik e lon' Mis sis' kwoi Mis soo' re Mis soo' re Mis soo' re Mis soo' re Mis cle' ne Mo beel' Mo' ka Mo ga dore' Mo inc' caz Mon' gol Mo non ga he' la Mo non ga he' la Mon tah' na Mon tah' na Mon te ray' Mo no te ray' Mo ne e' ay Mon te e' av Mon' gol Mon' gol Mon' gol Mon' te awl' Mo re' a Mos' co Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zel' Mo zen' Mo seat' Mo seat' Mo zen' M

Newfoundland	. New' fund land New Gra nah' da, . New Grin' nd New Wo'r le anz New Ro's le anz New Ro's sell' New Ze' land N'gah' me Ni ag' a ra Nic a rah' gwa Necce Nic o bar' Ne' men Ni' jer Nin' e veh Ni o bra' ra Niy' is sing Nip pone' Neemz Nor' fok Nor' ko ping Nor' wok Nor' wok Nor' rij No' tr Dahm' No' va Seo' she a No' va Zem' bla No' va Zem' bla No' wo go rod' Nyahn' za N'yahs' sa Wah' hoo.	Pedee Peipus
New Guinea	New Ghin' ne.	Pekin
New Orleans	.New Or'le anz.	Peling Pembi
New Rochelle	.New Ro shell'.	Pembi
New Zearand	. New Ze land. . N'oah' me.	Pemig Pensa
Niagara	. Ni ag' a ra.	Pepin
Nicaragua	.Nic a rah' gwa.	Perna
Nice	Neece.	Persia Pesth
Niemen	.Ne'men.	Philip
Niger	.Ni' jer.	Philip
Ninevell	. Nin' e veh.	Picard Picton
Nipissing	.Nip' is sing.	Piedm
Nippon	.Nip pone'.	Pieter
Nismes	Neemz.	Piqua Pisa.
Norrkoping	.Nor'ko ping.	Piscat
Norwalk	.Nor' wok.	Pitcai
Norwich, Notro Doma	Nor III. North Dahm'	Plaque
Nova Scotia	.No' va Sco' she a.	Platea Platte
Nova Zembla	. No' va Zem' bla.	Plymo
Novgorod	. Nov go rod'.	Poitie
Nyassa	. N'yahs' sa.	Polyno Pompe
0.1	137 1 (1)	Pontel
Oahu	. Wah' hoo.	Popay
Oaxaca	. Wah hah'ka.	Popoc Port a
Ohi	.0' be.	Porte.
Oceanica	Oshe an' e ca.	Porto Porto
Oconee	.0 co'nee.	Portug
Oder	.0' der.	Posen
Ogessa	.O des sa.	Poton Potosi
Oise	.Wahz.	Pough
Okeechobee .:	.O kee cho' bee.	Povan
Oknotsk Olmutz	Of muts.	Pragn Prairie
Omaha	.O'ma haw.	Presqu Prussi
Oneida	.O ni' da.	Prussi
Ouondaga Ontario	On ta're o.	Puebla   Puerto
Opelika	.O pel'e ka.	
Opelonsas	Ope loo' sas.	Pyren
Oran	.N yahn' zaN yahn' saWah' hooO' a sisWah hah'kaO' beO she an' e caOe mul' ghceO co' neeO' der, .O des' saO ghee' cbeeWahzO kac cho' beeOk hotsk', .O' mutsO' na hawO ni' daO no daw' gaO na' re oO pel' e kaOp eloo' sasO pel' oo' sasO rahn'Or 'e zah' baOr' le anzOr' le anzOr' muzOr' muzOr' muzOr' muzOr' muzOr' muzOr' muzOs sa wot' o meOs tend'Os we' goO' ta hiteOt' ta wawOt' a wawOt' a wawOt' a wawOt' a wawOt' a wawOt' ta wawOt' a wawOt' an wawOt' an wawOt' an wawOt' an wawOt' an waw.	Quatre
Oregon	.Or'e gon.	Quebe Quenl
Orinoco	Ore no co.	Quenl
Orkneys	.Ork'niz.	Quilos
Orleans	.Or' le anz.	Quinc Quine
Ortegal	.Or te gahl.	Quine    Quito
)-age	.O sage .	
Oshkosh	Osh' kosh.	Racine
Ossawattomie	.Os sa wot' o me.	Ragus Rahwa
Ostend	.Os tend'.	Rainie
Oswego	.Us we'go.	Raisin
Otaneite Otranto Ottumwa Oude	O tran' to.	Raleig Rango
Ottawa	.Ot' ta waw.	Rapid
		Rappa
Onse	.Ooz.	Rarita Ratish
Owasco Ozaka.	.O was' co.	Raven
Ozaka	.O'zah ca.	Readin
Ozark	. O Zark .	Reims Renss
Pacaraima	.Pah cah rah e' mah.	Resact
Pacha	.Pa shaw'.	
Padua	.Pad'n a.	Restig Reykj:
Paisley	.Paze' ley.	Rhone
Palermo	. Pa ler' mo.	Riad .
Palmerston	.Pahm'er ston.	Richel   Rieser
Palo Alto	.Pah' lo Al' to.	Rieser
Paulico	. Pah' los.	Riga.
l'ampas	.Pam'paz.	Riga . Rio de Rio G
Panama	.Pan a mab'.	Rio Ja
Papua Para	.Pah cah rah e' mahPa shaw'Pa dang'Pa d'ang'Pad'n aPaxc' leyPa ler' moPal' es tinePahn' er stonPah' loPah' losPam' le coPam' pazPan a mab'Pan' n aPa rah'.	Roand
Para Paraguay	.Pahr a gway'.	Roma
Paraguay Parahyba Paramaribo	.Pair ah e' bah.	Rosar
Paramaribo Parang	Pahr a ma re' bo.	Rotter
Passaic	.l'as sa'ic.	Ronen Ronm
	73	
Passamaqnoddy	Pas sa ma quod' dy.	Roum
Passamaqnoddy Patagonia	Pas sa ma quod' dy. Pat a go' ne a.	Rouse
Parana. Passaic Passaic Passamaqnoddy. Patagonia. Patos Patras. Pecos	l'as sa ma qnod' dy. Pat a go' ne a. Pah' tose. Pa tras'.	

Pedec	Pe dec'. Pa'c pus. Pe kin'. Pa ling'. Pcun' be na. Pem e je wos' sit. Pen sa co' la. Per sa co' la. Per lan boo' co. Per' she a. Pest. Phe lip' pi. Phe lip' pin. Plie 'ar de. Peet' ar de. Peet' mont. Pee termar' itz burg. Pik' wa. Pik kairn'. Plak meen'. Plat to'. Plat to'. Plat to'.	Saa
Peipus Pekin	Pa' e pus. Pe kiu'.	Sab Sab
Peling	Pa ling'.	Sab
Pembina	Pem o jo vos'sit	Sac
Pensacola	Pen sa co'la.	Sad
Pepin	Pep'in.	Sag
Persia	Per'she a.	Sag Sag
Pesth	Pest,	Sag
Philippi Philippine	Phe lip' pl. Phe lip' pin.	Sah Said
Picardy	Pic' ar de.	Saig Sala
Picton	Pie too'.	Sala Sali
Pietermaritzburg.	Peetermar'itzburg.	Sale
Piqua	Pik' wa.	San San
Piscatagna	Pis cat' a kwa.	San
Pitcairn	Pit kairu'.	San
Plateau	Pla to'.	San San
Platte	Pla to'. Plat. Plim'nth. Plim'nth. Poi tecrz'. Pol e ne' she a. Poun pa' e. Pout sbar train'. Po pa yan'. Pop o cah' te net'l. Pött o Prince'.	San
Plymontb Poitions	I'lim' nth.	San San
Polynesia	Pot e ne' she a.	San
Pompeii	Pom pa'e.	San
Pontenartram Ponavan	Po na van'.	San
Popocatepet1	Pop o cah' te pet'l.	
Port au Prince	Port o Prince'.	San
Port au Tince Porte Rico Porto Vecchio Portugal	Por' to Re' ko.	San
Porto Vecchio	Por' to Vek' ke o.	San
Portugal Posen	Por tu gal. Po'zen.	San San
Potomac	Po to' mac.	San
Potosi	Po to' se.	San San
Poyang	Po yang'.	San
Pragne	Praig.	San
Prairie du Chien Presone Isle	Pra re du Sheen. Presk Eel'.	San
Prussia	Prush' ya.	Sao
Puebla	Por' tn gal. Por' zen. Po to' mac. Po to' se. Po kip' se. Po yang'. Praig. Pra're du Sheen'. Presk Eel'. Prush' ya. Pware' to Preen' ce- pav.	Sara
r nerto i rincipe	pay.	Sara
Pyrences	Pir'en eez.	Sari
Quatre Bras	Kaht'r Brah'.	Sasi San
Quebec	Kwe bee'.	Sav
Quentun	Kwen 1000°. Kay ray tah' ro.	Sch Sch
Quiloa	Ke' lo a.	Sch
Quincy	Kwin' ze.	Sch Sch
Quatre Bras. Quebec. Queblun Queretaro. Quilon Quincv Quinebaug. Quito	Ke' to.	Sch
Daring	Do coon!	Sch Scil
Ragusa	Rah goo'sah.	Seid
Rahway	Raw'way.	Scla
Kanner Raisin	Ka' neer. Ra' zin.	Sco
Raleigh	Raw' le.	Sea
Rangoon	Rang goon'.	Seh
Rappahannock	Rap pa hau'nock.	Seb. Sed
Racine Ragusa Ragusa Rahway Rainier Raisin Raleigh Rangoon Rapidan Rappahannock Raritan Ratisbou Ravenna Ravenna Reading	Rar' it an.	Seic
Ravenna	Ra ven' na.	Seii   Seii
Reading	Red'ing.	Sen
Rems Rensselaer	Reemz. Ren sel er.	Sen Seo
Resaca de la Palma.	Reemz. Reemz. Reu sel er. Ray sah' ca day la Pahl' ma. Res te goo sha'. Rike' ya vik.	Seri
Restigouché	Res te goo sho'	Sev
Reykjavik	Rike' ya vik.	Sev
	*******	Sha Sha
Riad	Reesh'e lū.	She
Riesen	Re'zen.	Shi
Riesen Gebirge Riga	Re zen Ge bere ge. Re'ga.	Sia: Sici
Rio de la Plata	Re ad', Rec'sh' e lū, Re' zen, Re' zen Ge bere' ge, Re' ga, Rc' o day la Plah'ta, Re' o Grahn' day, Re' o Ja nay' ro, Ro an oke',	Sie
Kio Grande Rio Janeiro	Re'o Grahn'day, Re'o Ja nay'ro	Siei
Roanoke	Ro an oke'.	Sih
Romagua	Ro mahn' va.	Sile
reoncesvanes	mon se vant ves.	Sin
Rosario	Rot' ter dam.	Sin
Rouen	Koo en.	Sing Sion
Roumania Roumelia	Roo me' le a.	Ska
Rouses Point	Rowse' ez Point.	Ska
Ronses Point Rowan Russia	Rosh'a.	Slav
Ryswick	Riz' wik.	Sme

Saarbruck Sabinas Sabine Sable	.Sahr brook.
Sabinas	.San be' nas.
Sable	Sa been .
Saco	Saw co.
Sabine Sable Saco Sacramento Sadowa Saghalin Saghnaw Sagnaw Saguenay Sahama Sahama Sahara Sahara	.Sac ra men' to.
Sadowa	.Sah' do wa.
Saghalin	Sag ha leeu'.
Saginaw	Sag' e naw.
Sabama	Sa hah' ma
Sahara	. Sa hah' ra.
Said	Sah ecd'.
Salamanca	Si gon'.
Salamanca	. Sal a man' ca.
Samone	Samoh'un
Samarang	.Sam ar ang'.
Samarcand	Sam ar cand'.
Samoan	. Sa mo' an.
San Bernardino	
San Diego	San De a go.
San Feline	San Fay le' nay
Sangamon	.San' ga mon.
San Joaquin	San Ilo a keen'.
San José	.San Ho zay'.
San Juan	San Lorani Obia
san Lais Obisho.	San fins ke. San Fay le' pay. San Fay le' pay. San fin a keen'. San fin a keen'. San fin zay'. San Joo' an. San Loo ees' O bis'- po.
0 T ' D ' '	Of Townsell
	se.
San Marino	San Ma re' no.
San Mignel	San Me ghel'.
San Salvador	San Sal va dore'.
Santa Clara	se. San Ma re' no. San Ma ghel'. San Ma ghel'. San Sal va dore'. San' ta Bar' ba ra. San' ta Clah' ra. San' ta Croose. San' ta Fay'. San te e'. San te ah' go. San te ah' go.
Santa Craz	San' ta Croose.
Santa Fé	.San' ta Fay'.
Santee	.San tee'.
Santiago	.San te ah'go.
Santiago de Cuba	.San te ah go day
Saone	Son
Saragossa	.Sar a gos'sa.
Saratov	.Sar a tov'.
Sarawak	.Sahr a wahk'.
Sarmiento	Ca ba. Sōn. Sar a gos' sa. Sar a tov'. Sahr a wahk'. Sar me en' to. Sas katch' a wawn. Soo Sent Ma' rc. Sahr.
Saskatchawan	Sas Katch a wawn.
Sault St. Marie	Sahv
Scheldt	.Skelt.
Schenectady	.Ske nec' ta de.
Schoodic	.Shoo' dic.
SchroonSchuylkill	.Skroon.
Schweidnitz	Shwit'nite
Schwerin	Swa reen'
Scilly	Sil'le.
Sclaves	.Sklahvz.
Scotia	.Sko' she a.
Sclaves. Scotia. Scutari Seattle Sebago. Sebastopol	Se' t'l
Sebago.	.Se ba' go.
Sebastopol	.Se has to pol.
Sedau	.Se dahn'.
Sedau	.Sed'lits.
Seine Senegal	Sen's govel
Senegambia :	.Sen e gam' he a.
Senegambia : Sennaar Seoul	.Sen nahr'.
Seoul	Sa ool'.
Serro Espinhaço. Severn Seville Shanghai Shawanginik. Sherandoah Shikoka	Ser' ro Es peen-
Sarom	yah' so.
Seville	Sev'il
Shanghai	.Shaug hi'.
Shawangunk	.Shong'gum.
Shouandonle	.Shen an do'a.
onerandoan	
Shikokn	.Shi ko' koo.
Shikokn Siam	Shi koʻkoo. Si amʻ. Sis'e le
Shikokn	.Shi koʻkoo. .Si amʻ. .Sisʻe le. .Se er'ra Lc oʻne.
Shikokn	.Shi ko' koo. .Si am', .Sis' e le, .Se er' ra Le o' ne, .Se er' ra Mah' dray,
Shikokn Siam. Sicily Sierra Leoue. Sierra Madre. Sierra Nevada	.Shi koʻkoo. .Si am'. .Sis'e le. .Se er'ra Lc o' ne. .Se er'ra Mah'dray. .Se er'ra Ne vah'da.
Shikokn Siam. Sicily Sierra Leone. Sierra Madre. Sierra Nevada	.Shi ko' koo. .Si am'. .Sis'e le. .Se er'ra Le o' ne. .Se er'ra Mah' dray. .Se er'ra Ne vah' da. .Se hoon'.
Shikokn Siann. Sicily. Sierra Leone. Sierra Madre. Sierra Nevada. Sihon.	.Shi koʻkoo. .Si am', .Sis'e le. .Se er' ra Lc o' ne. .Se er' ra Ne vah' dray. .Se er' ra Ne vah' da. .Se hoon'. .Si le' se a.
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia	Si an'Sis'e leSe er' ra Lc o' neSe er' ra Mah' draySe er' ra Ne valı' da, .Se hoon'Si le' se a, .Si' na f.
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinai Sinaoa	Si am',Sis'e le., .Se er' ra Le o' neSe er' ra Mah' dray, .Se er' ra Ne vah' da, .Se hoon', .Si le' se a, .Si' na fSin a lo' a,
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinaioa Sinose	Si am',Sis'e le., .Se er' ra Le o' neSe er' ra Mah' dray, .Se er' ra Ne vah' da, .Se hoon', .Si le' se a, .Si' na fSin a lo' a,
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinaioa Sinose	Si am',Sis'e le., .Se er' ra Le o' neSe er' ra Mah' dray, .Se er' ra Ne vah' da, .Se hoon', .Si le' se a, .Si' na fSin a lo' a,
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinaioa Sinose	Si am',Sis'e le., .Se er' ra Le o' neSe er' ra Mah' dray, .Se er' ra Ne vah' da, .Se hoon', .Si le' se a, .Si' na fSin a lo' a,
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinaioa Sinose	Si am',Sis'e le., .Se er' ra Le o' neSe er' ra Mah' dray, .Se er' ra Ne vah' da, .Se hoon', .Si le' se a, .Si' na fSin a lo' a,
Siam. Sicily Sierra Leone Sierra Madre. Sierra Nevada. Sihon Silesia. Sinaloa Sinaloa Sinope Singapore Sioux Skager Rack Skaneateles. Slavonia.	Si am',Si am',Si s'e leSe er' ra Le o' neSe er' ra Nah' draySe er' ra Ne vah' da,Se hoon',Si le' se aSi' na lSin a lo' aSin' o peSing ga porc',Se oo',Se oo'Skag' er Rack,Skan e at' e les,Sla vo' ne aSles' wik Höl' stine.
Siam Sicily Sierra Leone Sierra Madre Sierra Nevada Sihon Silesia Sinai Sinaioa Sinose	Si am',Si am',Si s'e leSe er' ra Le o' neSe er' ra Nah' draySe er' ra Ne vah' da,Se hoon',Si le' se aSi' na lSin a lo' aSin' o peSing ga porc',Se oo',Se oo'Skag' er Rack,Skan e at' e les,Sla vo' ne aSles' wik Höl' stine.

Smyrna Smir'na, Socotra So co' tra, Sokoto Somail So maw le, Sonore So no're
SokotoSo ko' to,
Somali So maw' le.
Sonora So no'ra. Sorata. So rah'tah. Sorel Sor' el.
SorelSor' el.
SoudanSoo dan'.
SpeverSpi' er.
SpheroidSphe roid.
St. Anthony Sent An'to ny
Staten IslandStat'n I'land.
St. AngustineSent Aw gus teen'.
SteilacoomSti la coom'.
St. EliasSent E li' as.
Stettin Stet teen'.
St. Genevieve Sent Jen e veev'.
St. HelenaSent He le' na.
St. LouisSent Loo'is.
St. Picrre, Sent Pe air'.
StrasbonrgStras' bourg.
StromboliStrom' bo le.
St. RoqueSent Roke'.
Suchausoo'chow.
SucreSoo' cray.
SundaSun' da.
SurabayaSā ra bi' ah.
SurinamSur e nam'.
SnwaneeSn waw' nee.
Sorel Sor' el. Soudan Soo dan'. Spa Spah. Spah. Spayer Spi' er. Spheroid Spher foid. Sporades Spor' a deez. St. Anthony Sent An' to ny. Staten Island Stat'n I'land. St. Angustine Sent Aw gus teen'. St. Croix Sent Croi'. Steilacoom Sti la coom'. St. Elias. Sent Et e en'. St. Etienne Sent Et e en'. St. Etienne Sent Et e en'. St. Genevieve Sent Jon e veev'. St. Helena Sent Ile le' na. St. Lawrence Sent Law' rence. St. Louis Sent Loo'is. St. Pierre Sent Pe air'. Stralsund Strab'n Soond. Strabong Stras' bourg. Stromboli Strom' bo le. St. Roque Sent Roke'. Stuttgart. Stoot' gart. Sunda. Sun' da. Sunda. Sun' da. Surabaya. Sa ra hi' ah. Surata. Sur en. Sun' se. Sun' se. Syracuse Syra c'use'.
Syracuse
TabrizTa hreez'.
TalılequahTah' le kwah.
TalladegaTal la de'ga.
TamagnaTan ia nas see.
Tamatave Tam' a tahv.
Tampico
Tanganyika Tahu gahu ye'ka.
Syracuse Syr a cuse'.  Tabriz Ta hreez'. Tahiti Ta he'te. Tahilequah Tah' ke kwah. Talladega Tal la de' ga. Tallahassee Tal la has' see. Tamaqua Tam aw' kwa. Tamatave Tam aw' kwa. Tamatave Tam aw' kwa. Tampico Tam pe' co. Tanganyika Tahn gahn ye' ka. Tangier Tahn gahn ye' ka. Tangier Tahn gahn ye' ka. Tangier Tahn gen'. Taos Tahn gen'. Taos Tah 'ose. Tapajos Ta pah' yose, Tashkefid Tash kend'. Tasmania Taz ma' ne a. Taunton Tam' ton. Tauris Taw' ris. Tchad Chad Chad Chad Chad Chad Tee he rahn'. Tehuantepee Tee he rahn'. Teneriffe Tee' c rif. Terre Hante Ter' re Ilote, Tezcuco Tezco' co. Thames Thems Theebs Thecbz. Theiss Ticc. Thermopyke The mop' e le. Thiau Shan Te ahn' Shahn. Thibet Te bet'. Thibodeanx Tib o do'. Tierra del Fuego Te cr' a del Fwa'
TapajosTa pah' yose.
TashkendTash kend.
TauntonTahn' ton.
TaurisTaw ris.
TeheranTee he rahn'.
TehuantepeeTe wahn' te pec.
TeneriffeTen e rif.
Terre HauteTer' re Ilote.
ThamesTemz.
ThehesTheebz.
Thermonyle Thermon'e le
Thian Shan Te ahn' Shahn.
ThibetTe bet'.
TientsinTe ent seen'.
TientsinTe ent scen'. Tierra del FuegoTe er'ra del Fwa'
TiflisTif'iis.
TilsitTil'sit.
TimoretooTim inic too.
TiticacaTit e cah' ca.
TunnenTo bolsk'.
TocantinsTo can teenz'.
Tombighee Tom hig hee
TonquinTon keen'.
TopekaTo pe' ka.
Tortuga Tor too' ga.
Toulouse Too long'.
TournayToor na'.
ToursToor.
TransyaalTran al gar.
TrebizondTreb e zond'.
TrinidadTrin e dad'
Tients del Fuego Te er'ra del Fwa' go. Tifra del Fuego Te er'ra del Fwa' go. Tiflis. Til' sit. Tilsit. Til' sit. Tinnotco Tim hnc too'. Tirnova Teer' no va. Titicaca Tit e cah' ca. Titicaca Tit e cah' ca. Titinene Te u meu.' Tobolsk. To bolsk'. Tocautins To can teenz'. Tokio. To' ke o. Tombighee Tom hig' bee. Tonquin Ton kecn'. Topeka To pe' ka. Tortes Tor' res. Tortuga Tortoo' ga. Tontoga Tortoo' ga. Tonlon. Too long'. Tonlonse Too long'. Tonnray Toor na'. Tons Toor. Trafalgar Traf al gar'. Transvaal Trahns vahl'. Trebizond Trebe zond'. Trinidad Trin e dad'. Tripoli Trip' o le.

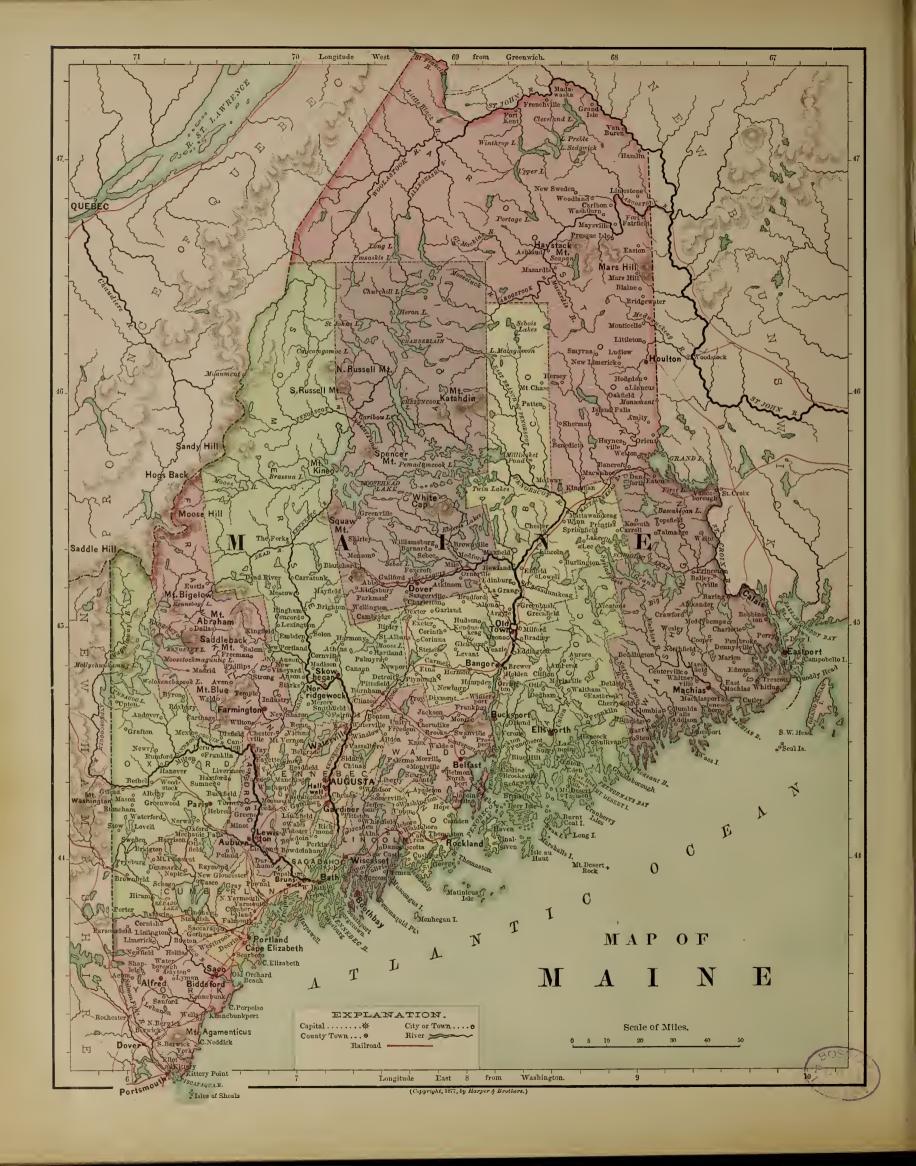
	Troves	Trwah.
	Truxillo	Troo heel' vo.
	Tueson	Too son'
	Troyes. Truxillo. Tueson. Tuenman Tulare Turin Turkestan. Turscany. Tyrol.	Too en man'
	Tuloro	Too lab/w
	Turare	100 lan re.
	Torn	Tu rin.
	Turkestan	Toor kes tan',
	Tuscany	Tus' ca ne.
	Tyrol	Tir role'.
	Uintah	Win'talıOolmUl' ster Oo na reel' yaUn' ba gogOo' per nah vikUp' salOo' ralUr ba' naYoo roo gway'Yoo' te kaYoo' te ka.
	Ulm	Oolm
	Lilster	Ill'eton
	Umatilla	On me real no
ı'.	Umbarara	. Oo ma teet ya.
	Umbagog	un ba gog.
	Upernavik	Qo' per nah vik.
	Upsai	Up' sal.
	Ural	Oo' ral,
	Urbana	Ur ba' na.
	Urnemay	You roo gway'
	Utah	Yoo'tuh
	I'tica	Voo'ta ka
_	Litrocht	Voo'trokt
	01100111,	100 tickt.
- /	Walladalid	37-3 3- 3- 3- 3 36
	valladond	yai ia do iced.
	Vallejo	Val ya' ho.
	Valencia	Va len'she a.
	Valparaiso	Val pa ri' zo.
	Vancouver	Van coo' ver.
	Venetia	Ven e' she a.
	Venezuela	Von e zwe' in
	1 onigo	Von'ico
	Venne Cours	Value Value
	Vera Cruz	va ra Kroos.
	Vergennes	ver jenz.
	Vermilion	Ver mil' yon.
	Verona	Ve ro'na.
	Valladolid. Vallejo. Valencia. Valparaiso Vancouver Venetia Venezuela Venice Vera Cruz Vergennes Vermilion Verona. Versailles Vesuvius Viceroy Vienna. Vincennes Vistula. Vosges.	Ver sålz'.
	Vesuvins	Ve soo've ns.
	Vicerov	Vice rov
	Vienna	Ve on'ny
	Vincennes	Vin con-
	Vincennes	viii cenz.
	Vistula	Vis tu la.
	Vosges	Vōzb.
	Wahash	Waw' bash.
	Wachnsett	Waw chn' sett.
	Wahabee	Wah hah' be.
	Wahsatch	Wah satch'
	Wallachia	Wal lu' ka a
	Wanachia	
	wana wana	VOI IR WOI IR.
a.	warsaw	war saw.
	Warwick	Wor'ik.
	Washita	Wosh'e taw.
	Wateree	Waw ter e'.
	Waterloo	Waw ter loo'.
	Waukesha	Waw'ke shaw.
	Wener	Wa' ner.
	Weser	We'zer
	Westphalia	West phatle a
	Wie baden	Wood hoh' day
	William house	Willer ban and
	Wirkesbarre	WILKS HAF FC.
a.	Willamette	Wil lam et.
	Winnebago	Win ne ba' go.
	Winnipeg	Win'ne peg.
	Winnipegoos	Win e pe goos'.
	Winnipiseogee	Win ne pe sok'e.
	Winona	We no'na.
	Winooski	We noos' ke
	Woonsoeleat	Woon sock et
	Waranter	Woos' tor
	Winterter	
	Wurtemberg	wer tem berg.
	wyandotte	wy an dot.
	wyoming	VözbWaw bashWaw chu' settWah hahi' beWah satch'Wal la' ke aWo' la Woi' laWo' sawWor' ikWosh' e tawWaw ter e'Waw ter loo'Waw ke shawWa' nerWe' zerWe' zerWe' zerWe' spha' le aWe' spha' le aWin me pe goo'Win ne pe goo'Win ne pe goo'Win ne pe soo' eWe noos' keWoos' terWoos' terWo' tem bergWy an dot'Wi o' mingYa hlo noi'.
a'-		
	Yahlonoi	Ya hlo noi'.
	Yang-tse-Kiang .	Yang'-tse-Ke ang'.
	Yarkand	Yar kahnd'.
	Yazoo	Ya zoo'.
	Vedo	Ved' o
	Yemen	Yem'en
	Teneni	Van a su'A
		CH C PA C.
	Teneset	Vo' 40
	Yczo	Ya'zo.
	Yczo Yokohama	Ya'zo. Yo ko hah'ma.
	Yezo Yokohama Yosemite	Ya'zo. Yo ko hah'ma. Yo sem'e te.
	Yczo Yokohama Yosemite Yonghiogheny	Ya'zo. Yo ko hah'ma. Yo sem'e te. Yoh ho ga'ne.
	Yczo Yokohama Yosemite Yonghiogheny	Ya'zo. Yo ko hah'ma. Yo sem'e te. Yoh ho ga'ne. Io se lan' te.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti	Ya'zoYo ko hah'maYo sem'e teYoh ho ga'neIp se lan'teYoo'hah
	Yczo Yokohama Yosemite Yonghiogheny Ypsilanti Yuba	Ya'zoYo ko hah'maYo sem'e teYoh ho ga'ne,Ip se lan' teYoo'hahYoo'hah.
	Yezo Yokohama Yosemite. Yonghiogheny Ypsilanti Yuba Yucatan.	Ya'zoYo ko hah'maYo sem'c tcYoh ho ga'ne,Ip se lan'teYoo'hahYoo ca tan'.
	Yezo Yokohama Yokomite Yonghiogheny Ypsilanti Yuba Yucatan Yukon	Ya'zoYo ko hah'maYo sem'e teYoh ho ga'neIp se lan'teYoo'hahYoo ca tan'Yoo'kon.
	Yokohama Yokohama Yosemite Yonghiogheny Ypsilanti Yuba Yncatan Yukon	. Ya hlo noi' Yaug'-tee-Ke ang' Yar kahnd' Ya xoo' Yed' o Yem' en Yen e sa'e Ya' zo Yo ko hah' ma Yo sem' e te Yoh ho ga' ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon.	Ya'zo Yo ko hah' ma Yo sem'e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo' ca tan' Yoo' kon.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon Zacatecas Zambesi	. Ya'zo Yo ko hah' ma Yo sem'e te Yo ho nga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zam ba'zee.
	Yezo Yokohama Yosemite Yonghiogheny Ypesilanti Yuba. Yncatan Yukon Zacatecas Zambesi Zanguebar	. Ya'zo Yo ko hah' ma Yo sem'e te Yo hho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zanu ba'zee Zahug ge bur's
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Yuba Yncatan Yucatan Zacatecas Zambesi Zanguebar Zante	. Ya'zo Yo ko hah' ma Yo sem'e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zam ba' zee Zahing ge bar' Zan' te.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon Zacatecas Zambesi Zanguebar Zante Zanzte	. Ya'zo Yo ko hah' ma Yo sem'e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cae Zam ba'zee Zam'te Zan ze har'.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon Zacatecas Zambesi Zanguebar Zante Zante Zanton	. Ya'zo Yo ko hah' ma Yo sem'e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zam ba'zee Zahng ge bur' Zan' te Zan' ze har'.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yucatan Zacatecas Zambesi Zanguebar Zante Zante Zante Zante Zante Zante Zante Zante Zante	. Ya'zo Yo ko hah' ma Yo sem' c tc Yo h ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zam ba' zec Zam' tc Zan ze har' Ze' hand Zoo'rik.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon Zacatecas Zambesi Zanguebar Zante Zante Zante	. Ya'zo Yo ko hah' ma Yo sem'e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo' kon Zac a ta'cas Zam ba'zee Zahng ge bur' Zau' te Zan' ze har' Zo' rik Zoo' rik.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Yuba Yncatan Yucatan Zacatecas Zambesi Zanguebar Zante Zanzibar Zenland Zurich Zurich	. Ya'zo Yo ko hah' ma Yo ko hah' ma Yo ko hah' ma Yo sem' e te Yoh ho ga'ne Ip se lan' te Yoo' hah Yoo ca tan' Yoo ca tan' Zac a ta'cas Zan ba' zee Zahlng ge bar' Zan' te Zan' ze har' Zoo' rik Zoo' rik.
	Yezo Yokohama Yosemite Yonghiogheny Ypsilanti Ynba Yncatan Yukon Zacatecas Zambesi Zanguebar Zante Zante Zante Zante Zunzibar Zealand Zutphen Zuyder Zee	. Ya'zo Yo ko hah' ma Yo sem'e te Yo h ho ga'ne Ip se lan' te Yoo' hah Yoo' ca tan' Yoo' kon Zac a ta'cas Zanu ba'zee Zaln' ge bur' Zau' te Zan ze har' Zo' rik Zoo' rik Zoo' ricu Zo' der Zee.

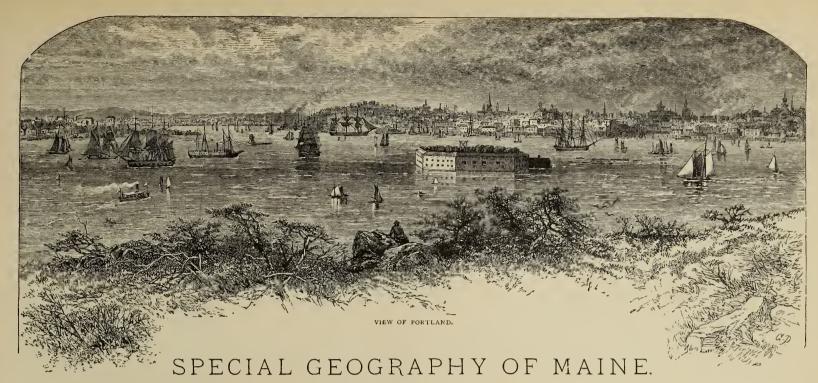
### GEOGRAPHY OF NEW ENGLAND.

DESIGNED TO ACCOMPANY HARPER'S SCHOOL GEOGRAPHY.

WITH MAPS OF THE STATES AND ILLUSTRATIONS

PREPARED EXPRESSLY FOR THIS WORK.





[Copyright, 1877, by HARPER & BROTHERS.]

### QUESTIONS ON THE MAP.

How is Maine bounded? What counties border on the Atlantic? On New Hampshire? On the Province of Quebec? On New Brunswick? What counties do not touch any of the boundaries of the state?

In what part of the state are the mountains? In what direction do they extend? Of what system are they a part? Name the principal peaks. Which is near the eastern boundary? Near the centre?

Name six of the largest lakes. What lake on the eastern boundary? On the western? Name the four principal bays on the coast of Maine. What rivers form parts of the boundary of the state? Name the three largest rivers between the Saco and the St. Croix. Which two unite near the ocean? From what lake does the Androscoggin flow? The Kennebec? Into what bay does the Penobscot flow? From what lake does the St. Croix flow? Into what bay? Name the chief branches of the St. John. Of the Kennebec. Of the Penobscot.

What city is the capital of Maine? Where situated? Name the cities and chief towns on or near the following waters: Saco River. Casco Bay. Androscoggin River. Kennebec River. Penobscot Bay. Penobscot River. Passamaquoddy Bay. On a branch of the St. John. What others on or near the coast? In what part of the state are the chief cities and towns? Name the shire town of each county.

### DESCRIPTION.

[Area, 32,000 square miles; Population in 1870, 627,000.]

**Situation.**—Maine, the most northeasterly state of the Union, lies between 42° 57′ and 47° 32′ north latitude, and between 66° 52′ and 71° 6′ west longitude. Its greatest length, from north to south, is 303 miles; its greatest width, from east to west, is 212 miles. Its area is somewhat larger than that of all the other five New England States.

Coast.—The coast of Maine, with slight exceptions, is bold and rocky, and extends 218 miles in a straight line, from Kittery to Eastport. The total length of the coast-line, including that of the bays and islands, is 2486 miles. No other part of the United States has a coast so indented with bays and harbors, and so dotted with islands. Mount Desert, the largest island, is widely celebrated for its scenery. Of its thirteen peaks, the highest reaches an elevation of 1535 feet.

Surface.—A broken chain of hills and mountains extends across the interior of the state in a northeasterly direction. They appear to be a continuation of the White Mountains of New Hampshire. The summit of Mount Katahdin, the highest, is 5385 feet above the sea.

From this line of hills and mountains in the interior the surface

slopes northwardly to the St. John River, and southwardly to the coast, near which it becomes comparatively level. The whole state has also a gradual slope from west to east.

Drainage.—The state has a great number of lakes. The largest are found among the mountains of the interior. The surface of Rangeley Lake is 1256 feet above the sea, and that of Moosehead, the largest in the state, is 1023 feet. A large part of the water which falls among the mountains in the form of rain or snow flows into these lakes, and by them is delivered to the principal rivers of the state.

Maine surpasses every other state in the extent and value of its water-power. The northern slope of the state is drained by the tributaries of the St. John; the southern slope by the Penobscot, Kennebec, Androscoggin, Saco, and other smaller rivers. All these rivers, especially those of the southern slope, furnish, in their descent from the elevated lakes of the interior, a great number of permanent water-powers. Many of them are already employed in the manufacture of lumber, paper, cotton and woollen goods, and other articles.

**Soil.**—The soil of the state, as a whole, is neither rich nor easy to cultivate. The Sandy River Valley, the Valley of the Kennebec, and a large tract in Aroostook County are quite productive. Rich peat-bogs abound, of which little use has yet been made.

Climate.—The climate is one of extremes. The thermometer ranges from 20° or 30° below zero to 100° above. Much rain and snow fall. Near the coast the easterly winds from the Atlantic cause frequent cold fogs during spring and early summer.

Minerals.—A belt of roofing-slate extends from the Penobscot to the Kennebec, a distance of eighty miles. A vast amount of this slate is prepared for market every year. The principal quarries are in Piscataquis County. There are many large granite quarries, especially along the coast, where water transportation is convenient. Line is burned in large quantities at Rockland and Thomaston.

Agriculture.—In 1870 about one-seventh part of the state was improved land. Agriculture is most prosperous in the river valleys.

The chief farm products in 1870 were: Indian corn, 1,090,000 bushels; barley, 686,000 bushels; oats, 2.351,000 bushels; potatoes, 7,771,000 bushels; hay, 1,053,000 tons; butter, 11,636,000 pounds; wool, 1,774,168 pounds.

**Manufactures.**—The manufactures are varied and extensive. The characteristic staple products are lumber, ships, granite, lime, slate, and ice.

### Principal Manufactured Products in 1870.

Boots and Shoes (1873)	\$8,820,000	Lumber	\$11,396,000
Cotton Goods	11.740,000	Machinery (1873)	2,817,000
Flour and Grist Mill Products	4.416.000	Paper (1873)	3,042,000
Leather	3,779,000	Ships and Repairs	2,366,000
Lima	1.742.000	Woollen Goods	6, 151 000



many excellent harbors Maine possesses great facilities for maritime commerce. Besides a large domestic and coasting trade, there is an extensive foreign commerce. Many of the vessels built and owned in Maine are engaged in the carrying trade between ports not in the state. There is an important system of railroads, most of which are in the southern half of the state.

In 1874 the exports, chiefly cotton goods, canned fruit, fish, vegetables, boots and shoes, and lumber, amounted to \$3,628,000; and the imports, mainly cotton, coal, iron, sugar, molasses, and wool, were valued at \$5,372,000.

### Principal Railroads in 1877.

NAMES.	BETWEEN	MILES.
Bangor and Piscataquis	Old Town and Blanchard	66
Belfast and Moosehead Lake	. Belfast and Burnham	33
Boston and Maine	. Portland and Boston, Mass	116
European and North American	. Bangor and St. John, N. B	206
Grand Trunk	. Portland and Montreal, Province of Quebec	297
Knox and Lincoln	. Bath and Rockland	49
Maine Central	. Portland and Bangor	136
	. Bath, Farmington, Skowhegan, etc.	
	. Portland and Johnson, Vt	
	. Portland and Rochester, N. H	
	. Portland and Portsmouth, N. H	
	.Calais and Princeton	
	.West Waterville and North Anson	

Political Organization.—The state has the following executive officers: Governor, Council of Seven, Secretary of State, Treasurer, Attorney-General, Adjutant-General, and Superintendent of Schools. The Governor is chosen annually. Should no candidate for the office have a majority of the votes of the people, the Governor is chosen by the Legislature from the four candidates who have received the highest number of votes. The other state officers are chosen by the Legislature, except that the Superintendent of Schools is appointed by the Governor and Council.

The Legislature consists of a Senate and a House of Representatives, chosen annually. The Senate has thirty-one members; the House, one hundred and fifty-one.

The Supreme Court consists of one chief-justice and seven associate justices, appointed by the Governor and Council for a term of seven years.

The state is divided into sixteen counties, viz.: Androscoggin, Aroostook, Cumberland, Franklin, Hancock, Kennebec, Knox, Lincoln, Oxford, Penobscot, Piscataquis, Sagadahoc, Somerset, Waldo, Washington, and York.

There are fourteen cities, viz.: Auburn, Augusta, Bangor, Bath, Belfast, Biddeford, Calais, Ellsworth, Gardiner, Hallowell, Lewiston, Portland, Rockland, and Saco.

PORTLAND, in Cumberland County, the largest and wealthiest city in the state, is situated on an arm of Casco Bay. Built on elevated land, it commands a fine view of the bay and its numerous islands. It is the terminus of six railroads. A marginal railroad passes nearly all its docks, and greatly



increases its commercial facilities. It has a large coastwise trade. Various lines of regular steamers connect the city with the leading Atlantic ports, from Halifax to New York. It is also the chief winter port for Canada, and during that season steamships ply regularly between Portland and Liverpool. Canadian exports and

imports to the amount of more than \$40,000,000 pass through this city annually.

The harbor of Portland is one of the best on the whole Atlantic coast. It is safe, and has water deep enough for the largest vessels. The trade with the West Indies, South America, and Europe is quite large. The merchandise sold in the city is estimated at about \$40,000,000 a year; and its manufactures, including boots and shoes, rolling-mill and foundery products, machinery, locomotives, carriages, edge tools, and many other articles, amount to about \$9,000,000 annually.

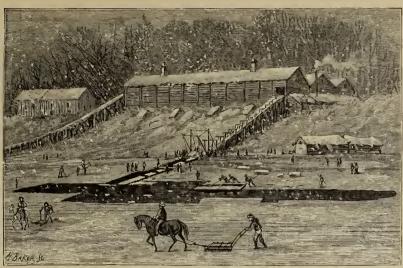
Portland is distinguished for the culture and refinement of its people. The site of the city was originally a part of ancient Falmouth. It was settled in 1632; was entirely destroyed in 1676, during the first Indian war; was resettled in 1680; was again destroyed by the French and Indians in 1690; was burned by the British in 1775; was incorporated in 1786; and became a city in 1832. In 1866 about one third of the city was destroyed by fire. Population in 1876, 35,031.\*

Augusta, a city in Kennebec County, is the capital of Maine. It is beautifully situated on both sides of Kennebec River, at the head of ticle-water, forty-two miles from the sea, and has a large local trade. The river furnishes extensive water-power, which is partly employed in manufacturing. Cotton goods and lumber are the chief products. The state house is a beautiful structure of white granite. Population, 7808.

LEWISTON, a city in Androscoggin County, is pleasantly situated on the eastern bank of Androscoggin River. It has several railroads. The Androscoggin, which here falls fifty feet within a distance of two hundred feet, furnishes one of the best water-powers in the United States. Among the manufactures, cotton and woollen goods are the most important; other leading articles besides these are lumber, machinery, and boots and shoes. The total value of the manufactured articles is about \$11,000,000 a year. The city contains Bates College. Nichols Latin School, and a theological seminary. Population in 1876, 19,027.

BANGOR, a city in Penobscot County, is situated at the head of navi-

<sup>\*</sup> The figures representing the population of the several cities and towns, except Portland and Lewiston, are from the United States census of 1870,



ICE-CUTTING ON THE KENNEBEC

gation on Penobscot River, at its junction with the Kenduskeag, and about sixty miles from the sea. It is the terminus of several important railroads, and is the trade-centre of an extensive agricultural and lumbering district. It is also largely engaged in lumbering in the pine, hemlock, and spruce forests which are on the head-waters of the Penobscot, and is, next to Chicago, the largest lumber-market in America. Many vessels are employed in the trade, and the lumber surveyed sometimes amounts to 200,000,000 feet a year. The coasting trade is considerable. Bangor has also a variety of manufactures, including machinery, edge tools, castings, and boots and shoes. Population, 18,289.

BIDDEFORD, a city in York County, is situated on Saco River, six miles from its mouth, and fourteen miles from Portland. The Saco here falls forty-two feet, and supplies excellent and inexhaustible water-power. The inhabitants are chiefly engaged in manufacturing. The products include cotton and woollen goods, machinery, hardware, lumber, and various other articles. In the extent of its manufacture of cotton goods Biddeford surpasses all other cities in the state except Lewiston. Population, 10,282.

BATH, a city in Sagadahoc County, is situated on the west bank of the Kennebec, four miles below its junction with the Androscoggin, and thirteen miles from the sea. It is well located for maritime commerce, and has good railroad facilities. It has long been noted for ship-building, the tonnage of wooden vessels built here exceeding that of any other port in the United States. In the amount of tonnage owned by its citizens it ranks as the fifth city in the Union. It has also a varied and important manufacturing interest and considerable coasting trade. Population, 7371.

ROCKLAND, a city in Knox County, is situated on the west side of Penobscot Bay. The inhabitants are chiefly engaged in ship-building and navigation, in quarrying granite and burning lime, in the manufacture of shoes, castings, and carriages, and in cutting ice. It has an active trade, especially in lime. Population, 7073.

AUBURN, a city in Androscoggin County, is situated on the western bank of Androscoggin River, opposite Lewiston. Its annual production of boots and shoes far exceeds that of any other city in the state. Among its many other manufactures plain cottons take the first rank. Population, 6169.

Among the other principal cities and towns are-

Calais—city in Washington County, on St. Croix River, head of tide-water. Water-power. Lumber; ship-building. Considerable local trade. Population, 5945.

Saco—city in York County, on Saco River, head of

navigation, opposite Biddeford, thirteen miles from Portland. Coasting trade. Manufactures: cotton goods, boots and shoes, lumber,

nres: cotton goods, boots and shoes, lumber, carriages, leather, machinery. Contains Old Orchard Beach. Population, 5755.

Belfast—city in Waldo County, on Penobscot Bay.
Broad and deep harbor, seldom closed by ice.
Lumber, ship-building, boots and shoes, and navigation. Population, 5278.

Ellsworth—city in Hancock County, on Union River, at the head of navigation. Lumber business. Centre of trade. Population, 5257.

Cape Elizabeth—twon in Cumberland County one.

Cape Elizabeth-town in Cumberland County, one mile south of Portland. Agriculture, naviga-Ships, machinery, martion, manufactures.

ket gardening, and fishing. Iron-rolling and oil-refining. Population, 5106.

Waterville—Kennebec County, on Kennebec River.

Centre of rich agricultural region. Cotton manufactures. Seat of Colby

University. Population, 4592.

Brunswick—Cumberland County, on Casco Bay and Androscoggin River. Ship-building and Excellent water-power. ber, paper, flour. cotton goods. Seat of Bow-

doin College. Population, 4687.

Gardiner—city in Kennebec County, west side of Kennebec River, six miles below Augusta, at junction and falls of Cobbossecontee River. Trade and manufactures. Lumber, machinery, paper, ice. Population, 4496.

Old Town—Penobscot County, on Penobscot River, twelve miles north of Bangor. Manufact-

nres; lumber. Population, 4072.

Skowhegan—Somerset County, on Kennebec Riv-

Terminus of branch of Maine Central Centre of a fine agricultural region. Abundant water-power. lumber, flour. Population, 3893. Axes, paper,

Eastport-Washington County, on Moose Island, in Passamaquoddy Bay. So called because the most easterly port of the United States. Fine harbor. Height of tide, 25 feet. Large Fine harbor. Height of tide, 25 feet. Large trade with British provinces. Steamers to Boston, Portland, and St. John. Exports lumber and fish. Population, 3736.

Bucksport—Hancock County, on Penobscot River,

eighteen miles below Bangor. Agriculture trade, manufactures, ship-building, and navi-

gation. Population, 3433.

Farmington—Franklin County, on Sandy River.

Attractive summer resort. Agriculture, trade, and manufactures. Seat of the Western State
Normal School. Population, 3252.

Boothbay—coast of Lincoln County, near mouth

of the Kennebec. Has one of the best har-bors on the coast. Ship-building, foreign and coasting trade, fishing, and porgy-oil. Population, 3200.

Hallowell—city in Kennebec County, on Kennebec River, two miles below Augusta. Extensive granite quarries. Boots and shoes, cotton goods, oil-cloth, machinery, lumber, ice. Population, 3008

Houlton-Aroostook County. In a fine agricultural region. Terminus of branch of New Bruns-wick and Canada Railroad. Population, 2850.

Education.—The state has an excellent system of public schools, open to all between the ages of four and twenty-one. The funds for the support of these schools are derived from various sources, but chiefly from a mill tax levied by the state upon the total valuation, and from a town tax of eighty cents for each inhabitant. The annual appropriation made by many towns exceeds the eighty cents. There are about 150 free high schools, whose support is, by special provision, divided equally between the towns and the state; but in no case does the state pay more than \$500 a year to any one town. The Western State Normal School is at Farmington, and the Eastern one at Castine.

There are many private academies which have received endowments from the state, but are under the control of different religious denominations. The highest schools for liberal culture are Bowdoin College, at Brunswick; Colby University, at Waterville; Bates College, at Lewiston; the State College of Agriculture and Mechanic Arts, at Orono; the Maine Wesleyan Seminary and Female College at Kents Hill; and the Westbrook Seminary, at Deering.

History.—In 990 the Northmen sailed to the coast of Maine, and continued to make occasional visits from that time until about 1450.

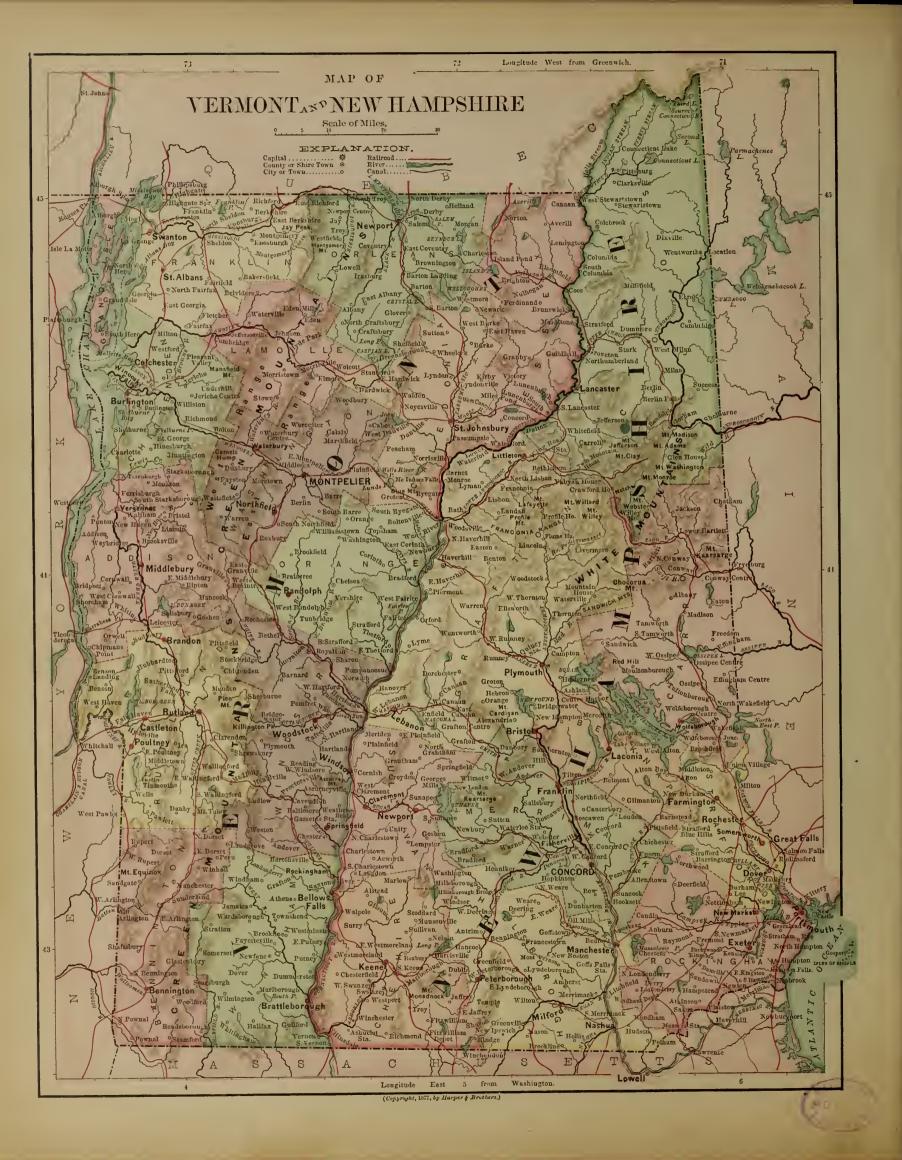


The first permanent European settlement was made by the English in 1622, near the mouth of the Piscatagua. At different times portions of Maine came under the control of the Massachusetts colony, whose jurisdiction was confirmed by the provincial charter of 1691, and again confirmed by the treaty of 1783. Thus Maine became a part of Massachusetts, and was known as the District of Maine until its admission into the Union as an independent state in 1820.

During the colonial period the people of Maine were engaged in six Indian wars, the last closing in 1759. It was in 1724 that the famous Norridgewock village, composed of partly civilized Indians, was destroyed. The people of Maine took an active and honorable part in the War of the Revolution and in the War of 1812. Bordering so extensively upon the sea and upon foreign territory, Maine was open to attack. Several minor conflicts occurred on her soil and along her coast. Since its original settlement by the French the beautiful little town of Castine has been seven times attacked by military or naval forces, and has been in the possession of several different nationalities. In 1775, Portland, then called Falmouth, was bombarded and burned by the British. In 1839 occurred the bloodless "Aroostook War." This was caused by a disagreement about the boundary-line between Maine and the British province of New Brunswick. During the great Civil War, from 1861 to 1865, Maine did her whole duty in the defence

The Legislature held its first session in Portland, May 21, 1820. It continued to meet there until January 4, 1832, when it met in the new capitol at Augusta.

Questions .- Describe the situation of Maine. The coast. The surface. Drainage. Soil. Climate. What is said of the minerals? Of agriculture? Of manufactures? Of commerce? Of the political organization? Describe Portland. Augusta. Lewiston. Bangor. Biddeford. What is said of education? Give an account of the history of Maine.



### SPECIAL GEOGRAPHY OF NEW HAMPSHIRE AND VERMONT.

[Copyright, 1877, by HARPER & BROTHERS.]

### QUESTIONS ON THE MAP.

New Hampshire.—How is New Hampshire bounded? What county borders on Canada? On the Atlantic Ocean? What counties border on Maine? On Massachusetts? On Vermont? What two counties in the interior of the state? What group of islands belongs in part to New Hampshire?

Which is the principal group of mountains in the state? Name some of the chief peaks. What range lies west of the White Mountains? What range south? Name the principal lakes of New Hampshire. Which is the largest? What large lake lies partly in Maine?

What river drains the western slopes of the state? Name its chief tributaries in New Hampshire. What river drains a large part of the central and southern portions of the state? Name its principal tributaries. What river forms a part of the eastern boundary? Name its chief tributaries. What rivers flow from New Hampshire into Maine?

What cities and large villages are on or near the Merrimack? On or near the Piscataqua and its branches? Southwest of Portsmouth? In the valley of the Connecticut? Name the county seat of each county.

Vermont.—How many and what states border on Vermont? What province of Canada bounds it on the north? What river borders the state on the east? What lake on the west? What lake extends into the state on the north? What counties border on Canada? On New Hampshire? On Massachusetts? On New York? On Lake Champlain? What county is composed of islands and a peninsula? What two counties in the central part of the state?

What mountain range in the central part of the state? Name the principal peaks. What rivers flow into Lake Champlain? Into Connecticut River? Into Lake Memphremagog? What rivers in the southern part pass into Massachusetts? Name the chief lakes and ponds.

What town is the capital of Vermont? What city and towns on or near Lake Champlain? On or near Otter Creek? What two towns southwest of Rutland? What town in the southwestern part of the state? What towns on or near Connecticut River? What town on Otta Quechee River? On Passumpsic River? Nearly south of Montpelier? Name the shire town of each county.

### NEW HAMPSHIRE.-DESCRIPTION.

[Area, 9336 square miles=5,975,040 acres; Population in 1870, 318,300.]

Situation.—New Hampshire is situated between 42° 40′ and 45° 18′ north latitude, and 70° 37′ and 72° 37′ west longitude. Its length from



north to south is 180 miles, while its width varies from 19 miles at the north to 90 miles near the southern boundary.

Surface.—The state is divided by the White Mountains and Merrimack River into four nearly equal sections, each of which presents marked peculiarities of surface.

The southeastern section is the lowest and most important. Nearly all of it lies between the Merrimack and the eastern boundary. It contains considerable tracts of

level and fertile land. Within its borders are eight of the eleven largest cities and villages of the state.

The southwestern section lies between the Merrimack and the Connecticut. It is covered with ranges of high hills, whose general direction is parallel to the western boundary. Among the principal peaks are Mounts Monadnock, Kearsarge, and Cardigan.

The third section is entirely covered by the ranges and valleys of the White, Franconia, and Sandwich Mountains, which together form one system extending from Connecticut River to the Maine boundary. Mount Washington (6288 feet), the highest of the White Mountains, is the loftiest peak in the United States northeast of Potomac River. Mounts Adams, Jefferson, Clay, Monroe, and Madison are each more than a mile high, while Mounts Webster, Willard, Willey, Lafayette, and Profile Mountain are scarcely less distinguished. The grand and beautiful scenery of these mountains, and their wonderful cascades, precipices, ravines, lakes, and forests, annually attract many thousands of visitors

from all parts of the United States and Europe, and have gained for this elevated region the name of "the Switzerland of America."

The remaining section lies north of these mountains. The surface is hilly, the soil is fertile, and the forests are very extensive.

All the rugged sections of the state are agreeably diversified by valleys which are rendered beautiful and fertile by many streams and lakes.

Drainage.—The western slopes of the state are drained by Connecticut River, whose western bank, at low water, is the boundary-line between New Hampshire and Vermont. The principal streams which flow into it are Perrys Stream, Indian Stream, the Upper and Lower Ammonoosuc, Mascoma, Sugar, and Ashuelot Rivers. These and many smaller streams abound in water-powers, which are largely improved in the manufacture of lumber, cotton and woollen goods, furniture, and machinery.

The eastern slopes are, for the most part, drained by the Androscoggin, Saco, Piscataqua, Squamscot, and their tributaries. Most of these streams are deep, rapid, and never-failing, furnishing water-power for many prosperous villages, the seats of industry and wealth.

The remainder of the state, about two fifths of the whole, is drained by Merrimack River and its tributaries. This river, from its source to the sea, is 154 miles long. It is the most important river of the state, and turns more spindles than any other river in the world. On its banks are many towns and cities.

There are many beautiful lakes, rivalling those of Scotland and Switzerland; the most important being the Winnipiseogee, navigable for steamboats, the Umbagog (lying partly in Maine), Sunapee, Newfound, Squam, Ossipee, and Mascoma.

Climate. — The summers are short, the winters excessively cold. Snow covers the ground generally four months of the year, sometimes five. Along the valleys of the Connecticut and Merrimack the winters are less severe. In the central part of the state about a hundred and twenty-five days intervene between the frosts of spring and autumn.

Soil.—The mountainous portions are exceedingly rocky, and have a thin, gravelly soil. The less elevated regions are generally well-watered and fertile, affording much excellent land for grazing and tillage.

Minerals.—New Hampshire is called the "Granite State," from the predominance of that rock. The granite quarries in Concord, Hooksett, Mason, Milford, and other towns are a source of great wealth. There are valuable quarries of soapstone in Canterbury, Orford, and other towns, that in Francestown being the most valuable in the United States. There are also deposits of mica, slate, limestone, and graphite, all of which have been profitably worked. Gold, silver, lead, zinc, and copper are found, but not in abundance. The Franconia and Bartlett iron-mines produce some of the finest iron in the world.

Agriculture.—New Hampshire depends largely upon the West for the great food staples.

In 1870 it produced—Indian corn, 1,277,768 bushels; oats, 1,146,451 bushels; potatoes, 4,515,419 bushels; wheat, 193,621 bushels; rye, barley, and buckwheat, 253,256 bushels; hay, 612,648 tons; wool, 1,129,442 pounds; butter, 5,965,080 pounds; cheese, 849,118 pounds; milk sold, 2,352,884 gallons; maple-sugar, 1,800,704 pounds; value of slaughtered animals, \$3,720,243.

Manufactures.—The value of manufactured products is nearly twentyfour times the value of agricultural products, while the capital invested is only about one third as much.

In 1875 the capital employed was \$42,562,900; value of manufactured products, \$95,995,500; hands employed, 48,046; wages paid, \$19,945,500.

### Principal Manufactured Products in 1875.

Boots and Shoes	\$11,706,000	Hosiery	\$2,016,000
Cars and Carriages	1,750,000	Iron and Machinery	7,500,000
Cotton Goods	30,612,000	Leather	4,985,100
Flour and Grist Mill Products	3,563,400	Lumber	5,174,900
Furniture		Paper	
Granite, dressed	1,000,000	Woollen Goods	9,222,000

Commerce.—The exportation of manufactured products and the importation of food and raw materials give to New Hampshire a considerable domestic and interstate commerce. Its system of railways has placed every city and important town in communication with the great centres of business throughout the country.

In 1876 there were upwards of thirty railroads, with an aggregate length of about 1000 miles within the state, and others are in process of construction. The railroad through the Notch of the White Mountains, often running along the sides of frightful precipices, is a triumph of engineering skill. The Mount Washington Railway conveys passengers from the foot to the summit

of that mountain, a distance of three miles, the average grade being one foot in four.

The foreign commerce of New Hampshire is small, Portsmouth being the only seaport of the state. This city has many vessels, which are mostly engaged in the coastwise trade.

### Principal Railroads in 1877.

NAMES.		IILES.
Ashuelot	. Keene and South Vernon, Vt	24
Boston, Concord, and Montreal	. Concord and Groveton Junction	145
Mount Washington)	Bethlehem and Mt. Washington Summit	21
Portland and Ogdensburg	. Portland, Me., and Swanton, Vt. (through W. M. Notch)	232
Boston and Maine	Boston, Mass., and Portland, Me.	116
Dover and Winnipiscogee.	.Dover and Alton Bay	29
Cheshire	South Ashburnham, Mass., and Bellows Falls, Vt	54
Concord	Concord and Nashua	35
Concord and Claremont	. Concord and Claremont and Hillsborough Bridge.	71
Concord and Portsmouth	.Concord and Portsmouth	11
Support Valley	Suncook and Pittsfield	. 59
Factorn	Portsmouth and Boston, Mass	. 18
Doutemouth and Doues	Portsmouth and Dover.	. 56
Portsmouth, Great Falls, and Conway.	North Conway and Wolfeborough and South Berwick	
Fitchburg, Peterborough and Shirley	Greenville and Ayer Junction, Mass	. 23
	•	
	Portland, Me., and Montreal, Province of Quebec	
	. Manchester and Lawrence, Mass	
	. Manchester and North Weare	
	Nashua and Greenfield and Lowell, Mass	
	Peterborough and Winchendon, Mass	
	Concord and White River Junction, Vt	
	Franklin and Bristol	
	Windsor, Vt., and Bellows Falls, Vt	
	Rochester and Portland, Me	
	Nashua and Rochester	
Worcester and Nashua	Nashua and Worcester, Mass	. 46

Political Organization.—The executive officers of the state are a Governor, Secretary of State, Treasurer, and an Executive Council of five members. The legislative department consists of a Senate of twenty-four members, and a House of Representatives of about three hundred and eighty-seven\* members. Together they are called the General Court. All the members of the executive and legislative departments are elected biennially by the people, except the Secretary

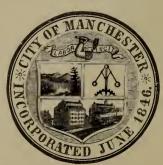
of State and Treasurer, who are elected by the Legislature. The judiciary consists of the Supreme Court, comprising a chiefjustice and five associate justices, and a Court of Probate for each county. All the judges are appointed by the Governor.

The state has two Senators and three Representatives in Congress, and has five electoral votes.

New Ifampshire is divided into ten counties, viz.: Belknap, Carroll, Cheshire, Coös, Grafton, Hillsborough, Merrimack, Rockingham, Strafford, and Sullivan. In 1877 the state contained six cities, viz.: Manchester, Concord, Nashua, Dover, Portsmouth, and Keene.

Manchester, in Hillsborough County, mostly on the east bank of the Merrimack, is the first city in the state in population and wealth; and, in the value of its manufactured cotton and woollen goods, is the fourth in the Union. The water-power is

vast, the river falling fifty-four feet within the limits of the city. The water is distributed to the shops and factories through a canal 45 feet wide, 10 feet deep, and 12,450 feet long. In the manufacture of the various fabrics, 310,000 spindles and 9000 looms are employed. The printed goods of Manchester are celebrated for their excellence. Its iron manufactures are extensive; the most important being locomotives, steam fire-engines, and edge-



<sup>\*</sup> The representatives are apportioned according to the population.

tools. The whole value of its manufactured products amounts to upwards of \$20,000,000 annually. Four important lines of railway give to the city ample facilities for transportation. Manchester is well supplied with churches and schools, and has a valuable public library and many literary and benevolent societies. Population in 1870, 23,536.

CONCORD, in Merrimack County, is the capital of New Hampshire, and is the second city in population and the third in wealth in the state. It is situated on both sides of Merrimack River, the city proper being on the west bank, and carries on an extensive trade with surrounding towns. Its principal manufactured products are carriages and wagons, dressed granite, iron-ware, furniture, musical instruments, and woollen goods. The most conspicuous buildings are the State House, built of Concord granite, the City Hall, and the New Hampshire Asylum for the Insane. Concord has numerous churches and schools and a large public library, and is at the junction of four of the most

important railroads of the state. The city is supplied with water from Penacook Lake, three miles away. Population, 12,241.

NASHUA, in Hillsborough County, eighteen miles from Manchester, on Nashua River, near its junction with the Merrimack, is the third city in population and the fourth in wealth in the state. Nashua River affords considerable water-power. The most important manufactures are cotton goods, glazed and card paper, heavy iron and steel machinery and castings. It has large railroad facilities, six different lines connecting here. Population, 10,543.

DOVER, in Strafford County, at the head of tide-water on Cochecho River, fifteen miles from the sea, is the fourth city in population and the fifth in wealth. It is the oldest permanent settlement in the state, and lies in the most densely populated district. It is noted for the quantity and quality of its cotton and woollen goods. Both the Cochecho and Bellamy Rivers supply good water-power. Several lines of railway intersect here, and vessels of light draught ascend the river to the city. Population, 9294.

PORTSMOUTH, in Rockingham County, is the fifth city in population and the second in wealth. It is on the south side of Piscataqua River, three miles from its mouth. This stream is here over half a mile in width, and is never less than forty-five feet deep at low water. Owing to the swiftness of the current and the height of the tides, it is never choked with ice. The harbor is protected by headlands, and reckoned one of the best and safest in the United States. The city has many fine public buildings, and its streets are broad and shaded. Its people are largely engaged in manufactures and commerce, and are noted for their wealth, high culture, and public spirit. The harbor is protected by two forts, opposite each other and near the mouth of the river. The Portsmouth Navy Yard lies opposite the city, but wholly within the limits of Maine. Population, 9211.

KEENE, in Cheshire County, is situated at the intersection of several railroads, and in the midst of an extensive valley, through which flow Ashuelot River and its tributaries. It is the sixth city in the state in population and wealth. It is surrounded by a large and fertile district, rich in agricultural products, and of which it is the business centre. The people are extensively engaged in manufactures. Population, 5971.

Among the other principal towns are—

Somersworth—Strafford County, on Salmon Falls River. Manufactures cotton and woollen goods, iron-ware, boots and shoes. Great Falls is the principal village. Population, 4504.

Rochester—Strafford County, on Cochecho River, six miles from Dover. Woollen goods, boots and shoes, leather; junction of four railroads. Population, 4103.

Claremont—Sullivan County, on Sugar River, three miles from the Connecticut. Cotton and woollen goods, machinery, and paper. Noted for the beauty of its scenery. Population, 4053.

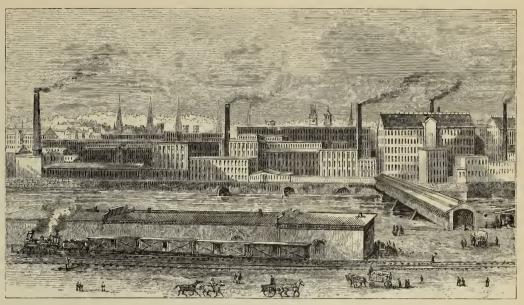
Laconia—Belknap County, on Winnipiseogee River, twenty-seven miles north of Concord. The centre of trade for a large circle of towns. Village on both sides of the river, contains some elegant buildings. Manufactures cot-

ton and woollen goods, hosiery, and railroad cars. Population, 3500.

Exeter—Rockingham County, at the head of tidewater on Squamscot River. Rich in agricultural products; contains some of the best farms in the state. Cotton goods, iron and brass wares, carriages, and paper. One of the most conspicuous towns in the early history of the state. Seat of Phillips Academy and of Robinson Female Seminary. Population, 3437.

Lebanon — Grafton County, on Mascoma River, which lies wholly within the town, and falls 400 feet in its passage through it to the Connecticut. Noted for water-power. Manufactures machinery, edge-tools, furniture, and musical instruments. Costly and elegant public buildings. Seat of Tilden Female Seminary. Population, 3094.

Education.-New Hampshire has ever manifested an intelligent in-



VIEW OF MANCHESTER.

terest in the education of the people. Large sums of money are annually expended on her system of public instruction, and her higher institutions are patronized with judicious liberality.

These schools are under the general care of a State Superintendent of Public Instruction appointed by the Governor, and under the immediate control of local committees (elected by the people) in each district and town. It is required by law that all between the ages of eight and fourteen years shall attend school at least twelve weeks in each year. In all the cities and larger towns the schools are graded. The state has a Normal School at Plymouth and an Agricultural College at Hanover.

Among the corporate institutions not under the control of the state is Dartmouth College, Hanover, founded in 1769. With it are joined the Agricultural College, the Chandler Scientific School, the Thayer School of Engineering, and the New Hampshire Medical College. The most prominent of the secondary schools are Phillips Academy, Exeter; Kimball Union Academy, Meriden; Literary and Biblical Institute, New Hampton; Literary and Scientific Institution, New London; New Hampshire Conference Seminary and Female College, Tilton; Tilden Female Seminary, West Lebanon; Robinson Female Seminary, Exeter; Penacook Academy, Fisherville; St. Paul's School, Concord; and Appleton Academy, New Ipswich.

Historical Sketch.—The mouth of the Piscataqua was entered by English adventurers in 1603. In 1614 its waters were explored by Captain John Smith. In 1623 permanent settlements were effected at Portsmouth and Dover, followed by others at Exeter in 1638, at Hampton in 1639, and at North Hampton and Kensington soon after. In 1641, for better protection, the colonists placed themselves under the government of Massachusetts. In 1679 New Hampshire became a separate province, and was ruled by governors appointed by the King of England. In 1690 it again became a part of Massachusetts, but was finally separated in 1741.

At the beginning of the War for Independence, New Hampshire took active measures for the public defence. She was the first of the colonies to form a constitution for self-government, and the first to declare her independence of Great Britain (June 15, 1776). She ratified the Constitution of the United States June 21, 1788. Her seamen and soldiers were among the foremost in upholding the honor and independence of the country in the War of 1812. At the breaking out of the Civil War, in 1861, New Hampshire responded promptly to the call for men and means to preserve the integrity of the Union, and her soldiers distinguished themselves in many of the fiercest battles of the war.

Questions.—Describe the situation of New Hampshire. Surface. Drainage. Climate. Soil. What is said of its minerals? Agriculture? Manufactures? Commerce? Political organization? Describe Manchester. Concord. What is said of education? Give a sketch of the history of New Hampshire.

### VERMONT.—DESCRIPTION.

[Area, 10,212 square miles\*=5,796,000 acres; Population in 1870, 330,551.]

Situation and Extent.—Vermont is situated between 42° 44′ and 45° north latitude, and between 71° 33′ and 73° 25′ west longitude. The length of the state from north to south is nearly 158 miles; the width on the northern boundary is 90 miles, on the southern 41 miles.

Surface. — The surface is greatly diversified. The Green Mountains extend through the state, dividing near the centre into two ranges, called the East Range and West Range. The West Range is the higher and more rugged. The East Range is the more continuous.

The highest peaks are: Mansfield, 4389 feet; Killington Peak, 4221 feet; Camel's Hump, 4083 feet; Jay Peak, 4018 feet; Mount Equinox, 3875 feet; Mount Ascutney, 3320 feet.

Drainage. — The western bank of Connecticut River forms the whole eastern border of the state, the surface of that river being included in New Hampshire.

The Connecticut receives from Vermont the entire drainage east of the main and eastern ranges of mountains. Most of the remainder of the state is drained by streams that flow into Lake Champlain or the Hudson. All these streams are noted for the beauty of their scenery and their numerous falls, which furnish superior water-power.

Lakes.—Lake Champlain, two thirds of which is in Vermont, is 120 miles long, with an average width of  $4\frac{1}{2}$  miles. Lake Memphremagog, one third in Vermont, is 30 miles in length, with an average width of 2 miles. Willoughby, Caspian, Seymour, and Crystal Lakes are beautiful sheets of water. There are also many smaller lakes and ponds.

Soil.—The soil in the valleys and on the hill-sides is very productive, and the more mountainous sections furnish good pasturage. More than two thirds of the state is improved land.

Climate.—The winters are long and severe. Sleighing is usually good throughout the winter months. The summers are delightful. The mean annual temperature at Burlington is 44.08°, at Lunenburgh 41.72°. The prevailing winds are westerly.

Minerals.—Vermont is rich in marble, limestone, soapstone, granite, and slate. Iron and copper ores of good quality are abundant in various places. Marble is found in all the counties west of the Green Mountains, also in Washington and Windsor. West of the mountains it is in great abundance, and runs through all grades and colors, from the fine white statuary marbles of Brandon to the beautiful deep-colored and variegated marbles of Winooski, and the black marble of Isle La Motte. Washington and Windsor Counties furnish blue and brown marbles, sometimes variegated with white.

Limestone is abundant both sides of the mountains, but the chief manufactories of quick-lime are on the western side. Steatite, or soapstone, though abundant in many places, is more extensively wrought in Windsor County than elsewhere. Granite is quarried in Kirby, Derby, Brunswick, and Victory, and from Blue Mountain, in Ryegate. One of the best quarries is in Barre. Large supplies of slate are obtained from Castleton, Fairhaven, Northfield,

Montpelier, Poultney, and other places. Iron ore is found in Bennington, Plymouth, and many other towns. Copper is abundant at Vershire, Corinth, and elsewhere, and sulphuret of iron in Strafford.

Agriculture.—The principal agricultural products of Vermont are horses, cattle, sheep, wool, hops, potatoes, maple-sugar, butter, and cheese. The sheep are unsurpassed in excellence, and the product of maple-sugar is exceeded only by that of New York.

The farm products of 1870 were: Indian corn, 1,699,882 bushels; oats, 3,602,430 bushels; potatoes, 5,157,428 bushels; hay, 1,020,669 tons; wool, 3,102,137 pounds; butter, 17,844,396 pounds; cheese, 4,830,700 pounds; maple-sugar, 8,894,302 pounds; maple-molasses, 12,023 gallons.

Manufactures.—Vermont is largely engaged in manufacturing. It has abundant water-power, only a part of which is yet put to any use.

In 1870 the capital employed was \$20,329,637; value of manufactured products, \$32,184,606; value of materials used, \$17,007,769; wages paid, \$6,264,581.

VIEW OF MONTPELIER.

### Principal Manufactured Products in 1870.

Boots and Shoes	\$547,789	Furniture	\$540,521
		1ron Castings	
		Leather	
Woollen Goods	3,619,459	Lumber, Sawed	3,525,122
Flouring and Grist Mill Products	3,895,058	Scales and Balances, in 1875	2,200,000

Commerce.—Though an inland state, Vermont has water communication by Lake Champlain, Richelieu River, Chambly River, Chambly Canal,† and the St. Lawrence with Montreal and Quebec and the various cities of the West; and by the Champlain and Hudson Canal and Hudson River with New York and the seaboard. Numerous railroad lines cross the state in various directions and furnish excellent commercial facilities.

### Principal Railroads in 1877.

NAMES.	BETWEEN	HLES.
Addison	Leicester and Ticonderoga, N. Y	. 16
Burlington and Lamoille	Burlington and Cambridge	35
Connecticut and Passumpsic Rivers and Massa- wippi Valley	•	
Central Vermont	Windsor and Burlington	118
Grand Trunk (in Vt.)	Montreal, Can., and Portland, Me	31
Harlem Extension	Rutland and Chatham, N.Y	113
Missisquoi	St. Albans and Richford	28
Montpelier and Wells River	Montpelier and Wells River	38
Montpelier and White River	Montpelier and Barre	. 6
Portland and Ogdensburg (Vt. division)	Lunenburgh and Swanton	. 118
Rensselaer and Saratoga	Rutland and Whitehall, N.Y	22
Rutland and Washington	Castleton and Troy, N. Y	82
Rutland	.Bellows Falls and Burlington	122
Southeastern Townships	Newport and Farnham, Canada	65
Sullivan	Windsor and Bellows Falls	. 26
Vermont and Canada	Essex Junction and Rouses Point, N.Y	48
Vermont and Massachusetts	Brattleborough and Millers Falls, Mass	21
Vermont Valley	Bellows Falls and Brattleborough	. 24
Woodstock	White River Junction and Woodstock	. 14

Pelitical Organization.—The chief executive officers of the state are the Governor, the Lieutenant-Governor, and the Treasurer. The legislative department, or General Assembly, consists of a Senate of thirty members, chosen from the counties, and a House of Representatives of two hundred and forty-three members, one from each organized town or city. The judiciary consists of the Supreme Court, comprising one chief judge and six assistant judges; County Courts, Probate

<sup>\*</sup> Some recent authorities give  $9056\frac{1}{4}$  square miles, which is about equal to the sum of the township surveys.

<sup>†</sup> Richelieu River, Chambly River, and Chambly Canal are in Canada.

Courts; and Justice Courts. The executive officers, the members of the General Assembly, and the judges are chosen biennially.

The state has two Senators and three Representatives in the Congress of the United States, and has five electoral votes.

Vermont is divided into fourteen counties, viz.: Addison, Bennington, Caledonia, Chittenden, Essex, Franklin, Grand Isle, Lamoille, Orange, Orleans, Rutland, Washington, Windham, and Windsor; and contains two cities, Burlington and Vergennes, and two hundred and forty-three towns, four of the latter being yet unorganized.





BURLINGTON, in Chittenden County, at the head of Burlington Bay on Lake Champlain, is situated on rising ground, giving beautiful views of the lake and the surrounding country. It has a superior harbor, extensive railroad communications, and a larger commerce than any other place in the state. It is the third city in the country in the amount of its lumber trade, which exceeds 100,000,000 feet annually. It has many manufacturing establishments, and is the seat of the University of Vermont and Agricultural College. Population, 14,387.

Montpelier, the capital, is situated on Winooski River, at the junction of three railroads. It has good water-power, and is the wealthiest town in the county. The state capitol is among the finest of its kind in the United States. Population, 3023.

VERGENNES, in Addison County, is at the head of navigation on Otter Creek, one of the finest water-powers of the state. Vergennes was incorporated in 1783, and was for some years the only city in New England. The Vermont Reform School is located here. Population, 1775.

RUTLAND, the shire town of Rutland County, is situated on the Rutland Railroad and Otter Creek. It is the second town in the state in wealth and population, and is rapidly increasing. It owes its prosperity to the excellence of its marble, the quarries being numerous and exhaustless. It is the largest marble market in the state. Population, 9834.

ST. ALBANS, the shire town of Franklin County, is situated on the Vermont and Canada Railroad. It is noted as the chief market for butter in the state. The extensive repair-shops of the Central Vermont Railroad Company are at this place. Population, 7014.

BENNINGTON, in Bennington County, on the Harlem Extension Railroad, has good water-power and a flourishing business. Near this town was fought the famous battle of Bennington. Population, 5760.

BRATTLEBOROUGH, in Windham County, one of the oldest and most beautiful villages in the state, is at the junction of two railroads, and is noted for the manufacture of the Estey organs. It is the seat of the Vermont Asylum for the Insane. Population, 4933.

ST. JOHNSBURY, the shire town of Caledonia County, is situated at the intersection of two railroads. It is the seat of the Fairbanks scale manufacture, the largest of its kind in the world. The Athenæum Library is the largest town library in the state, and one of the best in New England. It is the seat of St. Johnsbury Academy. Population, 4665.

Among the other principal towns are—

Noted for extensive quarries of limestone. Winooski Falls the principal village. Winooski River furnishes extensive water-power. Population, 2011

Colchester—Chittenden County, on Vermont and Canada Railroad. Brandon—Rutland County. Flour-ishing town on Rutland Railishing town on Rutland Rail-road. Extensive manufacture of mineral paint. "Howe Scale Company," second only to the Company," second only to the "Fairbanks Company," products in 1875, \$400,000. Population, 3571.

Northfield-Washington County, on Central Vermont Railroad, about ten miles southwest of Montpelier. Extensive slate quarries. Several factories. ity. Population, 3410.

Castleton - Rutland County, on Rutland and Washington, and Rutland and Whitehall Railroads. Slate quarries; one of magnesian

slate, extensively manufactured into slatepencils. Seat of one of the state normal schools. Population, 3243.

Seat of Norwich Univer- Middlebury-Addison County, on Rutland Railroad. Abundant water-power at the falls of Otter Creek. Fine white and variegated marbles. Seat of Middlebury College.

Education.—The common schools of Vermont are under the general supervision of the State Superintendent of Education, who is elected by the General Assembly; but more directly under the control of the Town Superintendent and Prudential Committee, elected by the people in each town. The district schools are free to all between the ages of five and twenty years, and it is required by law that all between the ages of eight and fourteen shall attend school three months each year. The state has three normal schools, one in each congressional district, at Randolph, Castleton, and Johnson. The schools of the cities and larger towns are graded.

Among the institutions not directly under the control of the state are the University of Vermont and State Agricultural College at Burlington; Middlebury College at Middlebury; Norwich University at Northfield; St. Johnsbury Academy at St. Johnsbury; Methodist Seminary and Female College at Montpelier; Goddard Seminary at Barre; Troy Conference Seminary at Poultney; and Vermont Academy at Saxton's River; Burr and Burton Scminary at Manchester, and Vermont Episcopal Institute at Burlington.

Historical Sketch.—The first permanent settlement within the borders of the state was at Fort Dummer, a short distance below the village of Brattleborough, in 1724. The fertile meadows on Connecticut and Winooski Rivers having attracted attention, a tide of emigration set in towards Vermont, and in 1768 one hundred and thirty-eight townships had been granted within the present limits of the state.

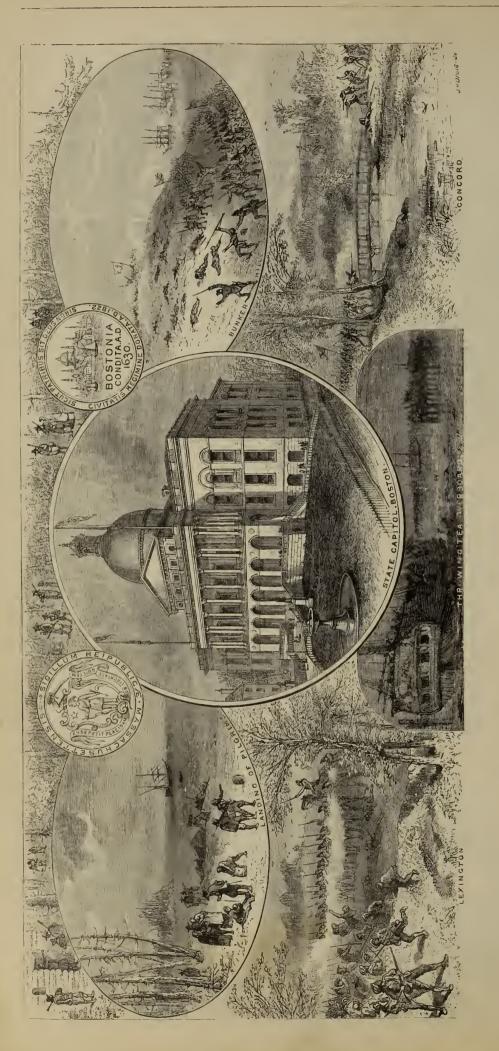
The country west of Connecticut River was then known as the "New Hampshire Grants," the Governor of New Hampshire claiming jurisdiction under the New Hampshire charter. The Governor of New York claimed the territory under grants from Charles II. Upon appeal to the king the question was decided in favor of New York.

The New York government now attempted to eject the settlers from their lands, but met armed resistance on the part of the settlers, who acted under the lead of Ethan Allen, Seth Warner, and others. The opening of the Revolution caused a suspension of the controversy; and in 1776 Vermont petitioned the Provincial Congress for admission into the Confederacy, but was successfully opposed by New York. In 1777 Vermont declared her independence, adopted a Constitution, and in July of the same year again applied for admission, but was refused. In 1790 New York relinquished all claim to Vermont for \$30,000.

On March 4, 1791, Vermont was admitted into the Union, being the first state admitted after the general adoption of the Constitution. During the Civil War Vermont furnished 34,238 soldiers, and was prompt in meeting every call made by the government.



Drainage. Lakes. Soil. Climate. What is said of its minerals? Of its agriculture? Manufactures? Commerce? Political organization? Describe Burlington. Montpelier. Vergennes. What is said of education? Give an account of the history of Ver-



# MASSACHUSE О Г SPECIAL GEOGRAPHY

opyright, 1876, by Harper & Brothers.]

## OUESTIONS ON THE MAP.

How many and what states border on Massachusetts? What ocean on the east? What bay on the east? What two sounds? What two large islands belong to the state?

What counties border on Massachusetts Bay? On Cape Cod Bay? Buzzards Bay? Vineyard Sound? Nantucket Sound? Rhode Island? Connecticut? What one on New York? What two on Vermont? What four on New Hampshire? What county does not touch any boundaries of the state? What two counties cross the state? What two are

on islands?
Which is the principal river of Massachusetts? Name its chief tributaries within the state. What river drains the northwestern part of the state? What one the southwestern part? The most northeastern part? Name its two chief tributaries in Massachusetts. What river southeast of the Merrimac? What rivers flow into Boston Harbor? (See

map of Boston.) Into Narragansett Bay? Name the chief capes of Massachusetts.

What city is the capital of Massachusetts? Name the chief cities and towns northeast of Boston and within twenty miles of it. On the north. On the northwest. On the south, east. On the south, on the south east. Name the four cities on the Merrimac. The chief town on Ipswich River. The city near Cape Ann. What town on an arm of Cape Cod Bay? What city on an arm of Buzzards Bay? What two on Taunton River? What large town northwest of Taunton?

What city nearly midway between Boston and Connecticut River? What large town southeast of Worcester? Nearly northeast? What city north? What two cities on the Connecticut? What two towns? What town nearly west of Springfield? What town near the sources of the Housatonic? Of the Hoosic?

What mountain ranges in the western part of the state? Name the two highest peaks.

### DESCRIPTION.

[Area, 7800 square miles-4,992,000 acres; Population in 1875,

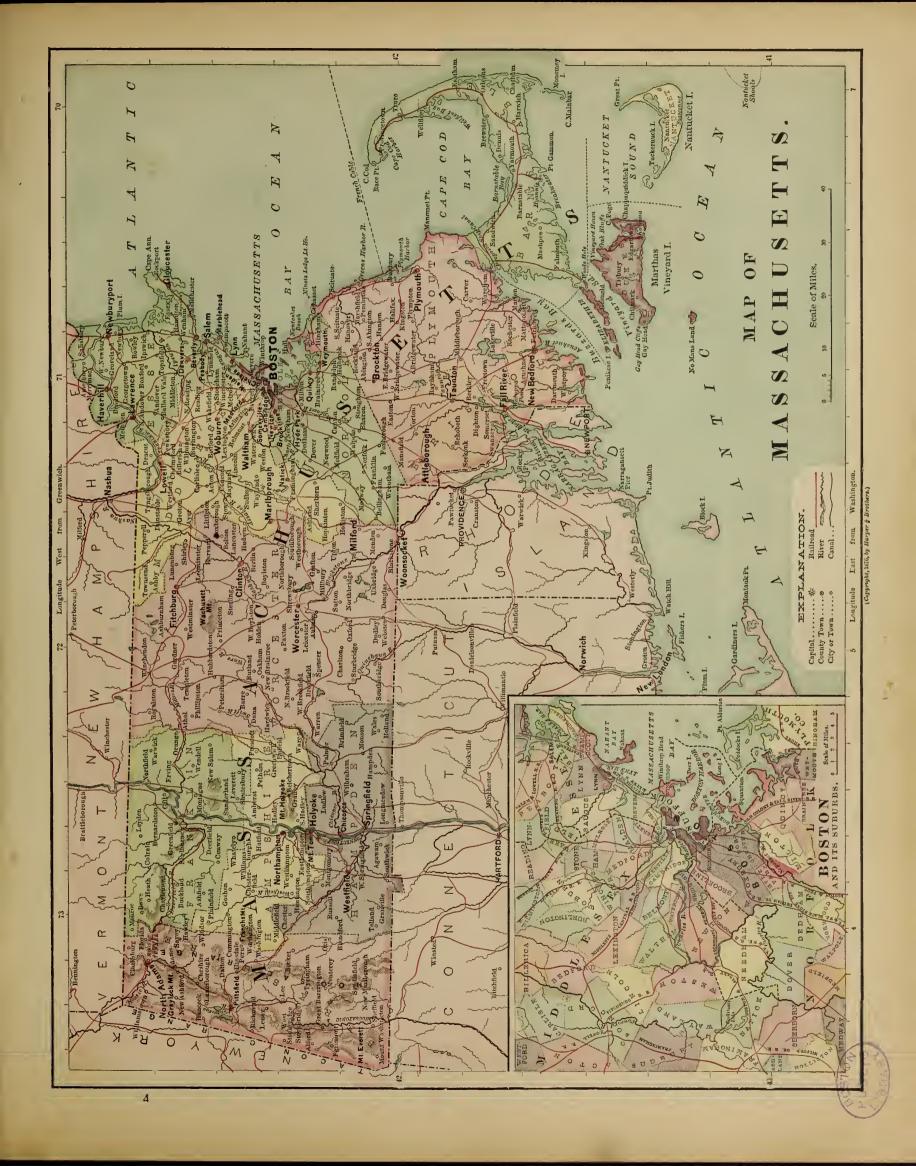
1,651,912.]

Situation. — Massachusetts is situated between 41° 10° and 42° 53′ north latitude, and between 69° 50′ and 73° 30′ west longitude.

The interior counties, covering about two thirds of the state, form a nearly regular parallelogram, about 100 miles long by 50 broad. The ocean counties, the remaining

third, form two irregular arms, widely extended, and differ-

Surface.—The parallelogram consists of two elevated regions separated by the broad, low valley of the Connecticut. The western region is much the more elevated and rugged. It contains the Hoosac and Taconic ranges of the Green Mountains, here known as the Berkshire Hills, and noted for their beautiful scenery. Greylock, a peak of Saddle



Mountain, is the highest point in the state (3505 feet). Wachusett Mountain and Mount Holyoke are solitary peaks in the hilly eastern region. Mount Tom, near Mount Holyoke, is west of Connecticut River.

The eastern third of the state consists of low and beautifully undulating hills in the northeast, and of a broad and nearly level sandy plain in the southeast and the islands.

Drainage.—The Connecticut is the largest river in the state. Its basin is about 60 miles broad. Within the limits of the state the river falls 130 feet, furnishing a series of valuable water-powers. The most extensive is at Turners Falls, in Franklin County, and the most improved at Holyoke, in Hampden County. Deerfield, Millers, Westfield, and Chicopee Rivers, the chief tributaries of the Connecticut, abound in water-powers which are only partly used.

The Merrimac flows forty miles within the state, and is navigable to Haverhill, eighteen miles from the ocean. It has extensive water powers, chiefly at Lowell and Lawrence. Its branches are the Concord and the Nashua

Among other smaller streams are the Housatonic, with many valuable mill sites; the Blackstone and the Quinebaug, both lined with mills; the Ipswich, Mystic, Charles, and Taunton. Fall River and Watuppa Pond have important and never-failing water-power.



VIEW IN GLOUCESTER.

Soil.—In the valleys of the Connecticut and the Housatonic the soil of the lowlands is very rich. That of the greater part of the uplands, and of the sandy sea-coasts and islands, is very poor. Less than one half of the area of the state is improved land.

Climate.—The winters are long and severe. On the coasts and islands the climate is milder and more variable than in the interior, and chilly and damp east winds prevail, especially in the spring.

Minerals. — The state is not rich in minerals. The Housatonic region has iron ores and very pure and valuable glass-sand. Silver ores are found near Newburyport. Along the coast, especially at Quincy and Cape Ann, there are valuable quarries of granite and syenite.

Agriculture.—For a large part of its food Massachusetts depends upon the Central States.

Its chief farm products in 1870 were: Indian corn, 1,398,000 bushels; oats, 798,000 bushels; potatoes, 3,000,000 bushels; hay, 598,000 tons; wool, 306,000 pounds; tobacco, 7,312,000 pounds; butter, 6,560,000 pounds; cheese, 2,246,000 pounds; maple sugar, 400,000 pounds.

Fisheries.—The fisheries of Massachusetts far surpass in value those of any other state. The products sometimes exceed \$6,000,000 a year. They include cod, mackerel, herring, and halibut.

Manufactures.—Massachusetts holds the first rank in the Union in manufactures. No other state has so large a proportion of its people and capital engaged in this class of industries, although New York and Pennsylvania somewhat exceed it in the capital employed, and in the value of the products.

In the production of boots and shoes, and cotton and woolen goods, it is without a rival. It also excels all others in cutlery, straw goods, chairs, cordage and twine, and in bleaching and dyeing.

In 1870 the capital employed was \$232,000,000; value of manufactured products, \$554,000,000; of raw materials used, \$335,000,000; wages paid, \$118,000,000. These remarkable results are in great part a consequence of the possession of abundant and widely diffused water-power by an industrious, intelligent, and ingenious people. Steam-power also is an important and rapidly increasing element of the manufacturing industries.

### Principal Manufactured Products in 1870.

Bleaching and Dyeing	\$22,252,000*	Furniture	\$11,369,000
Boots, Shoes, and Findings	90,561,000*	Iron and Iron-ware	22,960,000
Cars, Carriages, and Wagons	6,447,000	Leather	32,354,000
Clothing	21,725,000	Machinery and Engines	16,426,000
Cordage, Thread, Twine, and Yarn		Molasses and Sugar Refined	
Cotton Goods		Paper.	
Cutlery	6,215,000	Straw Goods	4.870,006*
Flour and Grist Mill Products	9,720,000	Woollens and Worsteds	47,770,006*

\* Ranks above all other states.

Commerce.—The immense manufacturing interests of Massachusetts

have given rise to an equally extensive commerce—domestic, interstate, and foreign. The whole state, but especially its eastern half, is overspread with a network of railways, connected on every side with the general transportation system of the country. The total length of the railroads within the state is about 2500 miles. A tunnel 4<sup>3</sup>/<sub>4</sub> miles long, passing through the Hoosac Mountain, has recently been completed by the state at a cost of \$14,000,000. This must greatly increase the commerce of Massachusetts with the great West.

In foreign commerce this state is second only to New York. It has also a large and valuable coasting trade. The principal ports and harbors are Boston, New Bedford, Salem, Newburyport, Gloucester, Plymouth, Vineyard Haven, and Provincetown.

Principal Railroads in 1876.

NAMES.	BETWEEN	MILES-
Boston and Albany	Boston and Albany, N. Y	201
New York and New England	Boston and Willimantic, Conn	S5
Boston and Lowell	Boston and Lowell	26
Boston and Maine	Boston and Portland, Me	116
Boston and Providence	Boston and Providence, R. I	44
Connecticut River	Springfield and South Vernon, Vt	50
Eastern	Boston to State Line	41
Fitchburg.	Boston and Fitchburg	50
Boston, Fitchburg, and New Bed.ord	Fitchburg and New Bedford	90
New Haven and Northampton	Williamsburg and New Haven, Conn	84
New London Northern	Millers Falls and New London, Conn	100
New York, New Haven, and Hartford .	Springfield and New York, N. Y	123
Norwich and Worcester	Worcester and Norwich. Coun	59
Old Colony	Boston and Provincetown, Plymouth and Newport, I	R. I. 217
Providence and Worcester	Worcester and Providence, R. I	43
Springfield, Athol, and Northeastern	Springfield and Athol	48
Vermont and Massachusetts	Fitchburg and Greenfield	56
Troy and Greenfield	Greenfield to Hoosac Tunnel	30
Worcester and Nashua	Worcester and Nashua, N. H	46



Political Organization. — The executive officers of the state are the Governor, Lieutenant-Governor, Secretary of the Commonwealth, Treasurer and Receiver-General, Auditor, Attorney-General, and the Executive Council of eight.

The legislative department consists

of a Senate of forty members, and a House of Representatives of two hundred and forty members. All the members of the executive and legislative departments are elected annually by the people.

The judiciary consists of the Supreme Court, comprising a chief-justice and six justices; the Superior Court, comprising a chief-justice and nine justices; and Courts of Probate and Insolvency for each county. All the judges are appointed by the Governor, and hold office during good behavior.

The state is divided into fourteen counties, viz.: Barnstable, Berkshire, Bristol, Dukes, Essex, Franklin, Hampden, Hampshire, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester.

The state has two Senators and eleven Representatives in Congress, and has thirteen electoral votes.

In 1876 the state contained nineteen cities, viz.: Boston, Lowell, Worcester, Cambridge, Fall River, Lawrence, Lynn, Springfield, Salem, New Bedford, Somerville, Chelsea, Taunton, Gloucester, Holyoke, Newton, Haverhill, Newburyport, and Fitchburg. Besides these there were twenty-four towns whose population ranged from 6000 to 16,000.

Boston, in Suffolk County, is the capital of Massachusetts, and the largest and wealthiest city in New England. It is beautifully situated, between Mystic and Neponset Rivers, upon the hills and lowlands of a group of small peninsulas and the adjacent mainland. Charles River flows through the city.

The city includes Boston, Roxbury, Dorchester, West Roxbury, Brighton, and Charlestown, which were once separate towns, and though now under one corporation, still retain their old names. Its population in 1875 was 341,919.

Boston is surrounded by scenes of great and varied beauty. On the seaward side is a wide and deep harbor, protected by numerous islands. On the land side the city is nearly encircled by a series of neighboring residential cities and towns, among which are Chelsea, Somerville, Cambridge, Newton, Brookline, and others. These contain the homes of thousands of the business and professional men of Boston, and are connected with it by numerous railroads. Though retaining their local governments, they are essentially a part of the great city. The population of Boston, together with that of the suburban towns within a radius of twenty miles, is about 750,000.

No equal area in America presents so great a number of beautiful drives,

of charming views of sea and land, lakes, valleys, and hills, and contains so many residences which wealth, culture, and good taste have combined to render comfortable and delightful homes.

The domestic commerce of Boston is very extensive. The various manufactures of the state and of New England here find their chief depot both for the sale of products and the purchase of raw material. The city is the largest boot-and-shoe market in the world, the leading market for American dry-goods, and the chief wool market of the United States. There is also a very large trade in clothing, fish, flour, grain, and provisions. The total amount of sales of merchandise in the city has sometimes reached \$1,200,000,000 a year.

Eight important lines of railroad centre in Boston, and furnish the land transportation; and numerous lines of steamers and other coasting vessels extend this great and growing commerce to all the ports of the Atlantic and Gulf States.

The foreign commerce is of corresponding magnitude. In the value of its imports it is the second city of the Union, and is third in the total value of its exports and imports, being exceeded only by New York and New Orleans. Lines of ocean steamers connect the port with Liverpool, in England. The chief exports are flour, grain, provisions, petroleum, and furniture. Vessels carry large quantities of ice to India, and bring in return valuable cargoes of East Indian products.

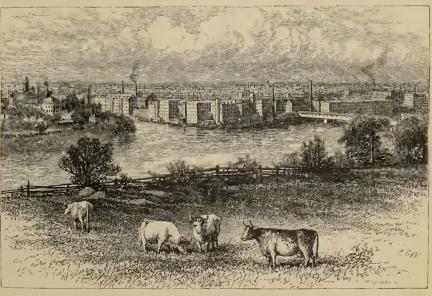
Boston has long been justly celebrated for the high character of its free public schools and other institutions of learning. The former includes (1878) 1 normal, 2 Latin, 7 high, 49 grammar, and 411 primary schools, together forming a graded system remarkable for its completeness and efficiency.

Among the other institutions are the Public Library, free to all citizens, and the largest in the United States excepting the Library of Congress at Washington; the Institute of Technology, for the study of the practical arts and sciences, including agriculture and the mechanic arts; Boston Society of Natural History; Boston College; Boston University, including schools of theology, law, medicine, and universal science, and a college of arts, natural science, and music; the Athenæum, and numerous music and other private schools.

Besides the buildings occupied by these institutions, there are many hotels, markets, and halls; the State House, the most conspicuous building in the city; the Post-office, the largest public building in New England; and Faneuil Hall, "the Cradle of Liberty," famous in the Revolutionary period, and still a place of important public meetings.

Boston contains many public parks and squares; the largest and most important are the Common, containing 48 acres, and the Public Garden, about 21 acres. These are tastefully embellished with trees, shrubs, and flowers, and with numerous statues and fountains.

In 1872 a great fire swept away sixty-five acres of buildings from the chief business district of the city, causing a loss of between seventy and eighty



VIEW IN LOWELL



MEMORIAL HALL, CAMBRIDGE.

millions of dollars. With characteristic energy the whole was promptly rebuilt, and the "burnt district" is now the most substantial part of Boston.

Lowell, a great manufacturing city in Middlesex County, sometimes called "the Manchester of America," is situated on Merrimac River, at its junction with the Concord. It is a centre of seven railway lines. The prosperity of Lowell is chiefly dependent upon its vast water-power, though steam is also largely employed. Within the limits of the city the Merrimac falls more than thirty feet. Its right bank for a long distance is closely crowded with mills for the manufacture of cottons, woollens, carpets, and a great variety of other articles. Besides these, there is a large variety of workshops and factories scattered through the city. Population, 49,688.

Worcester, in Worcester County, from its geographical position, and its social, political, and commercial influence, is sometimes called "the Heart of the Commonwealth." It is important as a railroad centre, and for the great variety and extent of its manufactures. These include nearly every kind of machine, instrument, textile fabric, and article of furniture or of clothing. Among the important public buildings and institutions are a State Normal School, Public High School, Free Institute of Industrial Science, Worcester Academy, Oread Institute, and the College of the Holy Cross. Population, 49,265.

CAMBRIDGE, Middlesex County, is a large city in the immediate neighborhood of Boston, and, next to the capital, the wealthiest in the state. It has considerable business in lumber and ice, and in the manufacture of books, steameugines, glassware, and soap. It is particularly noted as the seat of Harvard College, the oldest and most richly endowed literary institution in America. Mount Auburn Cemetery, one of the most beautiful in the United States, is partly situated in this city. The varied surface of Cambridge, its grand shadetrees, its elegant residences, the homes of merchants and literary men, and its many historic mementos and associations of the Revolutionary period, make it one of the most beautiful as well as most interesting of American cities. Population, 47,838.

FALL RIVER, in Bristol County, is situated on Mount Hope Bay at the

mouth of Taunton River. No other place in America presents so remarkable a combination of hydraulic power and navigable waters. Manufactures are the leading interest. The waters of Fall River, a tributary of the Taunton, supplied from a chain of unfailing lakes and ponds, here descend 140 feet within about half a mile, and furnish abundant power to a succession of mills and factories. In the amount of cotton goods, which are the chief product, Fall River exceeds every other city in America. Iron-work and other manufactures are both varied and important. Besides these great industrial advantages, Fall River has a deep and commodious harbor, a large fishing interest, and considerable coasting and foreign trade. Daily lines of steamers connect the city with Newport, Providence, and New York, and two lines of railroad furnish facilities for its extensive land commerce. Population, 45,340.

LAWRENCE, in Essex County, is situated on both sides of the Merrimac, which is here about 1000 feet wide, and furnishes extensive water-power. A dam of solid granite, 40 feet high and more than 1600 feet long, is built across the river, and forms a lake or reservoir nearly 9 miles long. Over this wall the river, in its whole breadth, plunges 26 feet, forming one of the most splendid artificial cataracts in the world. On the left bank a distributing canal 12 feet deep, 100 feet wide, and more than a mile in length, conveys the water to a long line of mills, factories, and workshops. The chief products are cotton and woollen goods, paper, boots and shoes, furniture, leather belting, machinery, and other manufactures. Population, 34,916.

LYNN, a city of Essex County, is beautifully situated on Lynn Harbor and Nahant Bay, eleven miles northeast of Boston. It is noted for the manufacture of boots and shoes, principally for ladies' use. These articles are here produced to the value of over fourteen millions of dollars a year, and employ about 200 establishments and more than 10,000 hands in their manufacture. Population, 32,600.

Springfield, a beautiful city in Hampden County, on Connecticut River, is the chief railroad and commercial centre of the western half of the state. The industries of the city are varied, even for Massachusetts, almost every trade and mechanic art being represented. Mannfactures are the leading interest. Springfield contains the United States Arsenal and Armory, the largest in America. Population, 31,053.

SALEM, a seaport city of Essex County, is situated on a small peninsula, and is the oldest town in Massachusetts except Plymouth. It is the centre of several railroads. Its fisheries are important. There is also a large coasting trade, coal for distribution to the interior towns being the chief item. Manufactures are the leading interest. There is the usual diversity of products of New England manufacturing towns, but leather is the most important. Salem is noted for the number and high character of its scientific and literary institutions. Prominent among these may be mentioned the Essex Institute, devoted to history and natural history, and the Salem Athenæum, which occupy a fine building called Plummer Hall; the East India Marine Society; the Peabody Academy of Science; and a State Normal School. Population, 25,955.



VIFW OF WORCESTER



Manufactures are a leading and growing interest, the value of the products of cotton and other goods in 1873 being about \$8,000,000. Population,

SOMERVILLE, in Middlesex County, has an active business in the manufacture of glass, earthen, and hollow ware, brick, and other articles. It is chiefly a residential city, with a varied and picturesque surface. It includes several prominent and beautiful hills, which are associated with events of the Revolution, and command magnificent views of Boston and its vicinity. Population, 21,868.

CHELSEA, in Suffolk County, though chiefly a residential city, manufactures furniture, woollens, rubber goods, pottery, and brass and iron work. It is connected with Boston by the Winnissimmet Ferry, established in 1631, and the oldest in the United States. Population, 20,737.

TAUNTON, a port and manufacturing city of Bristol County, is situated on Taunton River, and is an important railroad centre. It has considerable coasting trade. Mill River and Three-mile River, branches of the Taunton, are mill-streams flowing through the town. The chief manufactures are cotton goods and a great variety of articles of metal, including nails, tacks, hollow-ware, stoves, locomotives, and machinery. Population, 20,445.

GLOUCESTER, a seaport city of Essex County, is situated on the peninsula of Cape Ann, and has one of the best harbors on the Atlantic coast. It is connected with Boston by railway and lines of steamers. It has extensive granite quarries, and is a favorite summer resort for sea-bathing and sea-air. It is chiefly noted for its cod and mackerel fisheries, in which it exceeds every other port of the United States. In 1873 it employed in this dangerous business 375 vessels and 3500 seamen, only a small part of whom were inhabitants of the city. The value of the products was nearly \$4,000,000. Population, 16,754.

HOLYOKE, a city of Hampden County, is situated on the west bank of the Connecticut. A great dam across the river, which here falls sixty feet in about three fourths of a mile, furnishes one of the most extensive water-powers in the world. Besides paper, which is the chief product, large quantities of cotton and woollen goods and of many other articles are produced. Population, 16,260.

NEWTON, situated on Charles River, in Middlesex County, is a residential city, and is connected with Boston by two lines of railroad. Its surface is charmingly diversified. Its many eminences, crowned with beautiful villas and country-seats, command views of the metropolis and the ocean, of hill and valley, of upland and meadow, and of Wachusett and other mountains which break the western horizon. Population, 16, 105.

ADAMS, a town in Berkshire County, is situated on Hoosic River, and at the western opening of the Hoosac Tunnel. It contains numerous mills for the manufacture of paper, cottons, and woollens, and is engaged in calico-printing and in the manufacture of boots and shoes. Population, 15,760.

Note.—The town of Adams was divided in April, 1878, the northern part taking the name of North Adams, and the southern part retaining the name of Adams.

Among the other principal cities and towns are-

Haverhill - Essex County, at the head of sloop navigation on the Merrimac, eighteen miles

production of boots and shoes. Many other manufactures. Population, 14,628. from the sea. Second only to Lynn in the Newburyport-a seaport city of Essex County, on Worcester County, on Nashua River, at the terminus of four railroads. Extensive water-pov Products various, paper the most important. Many large machine-shops, founderies, and chair

and other factories. Population, 12,289.

Pittsfield—Berkshire County, beautifully situated in an elevated valley on the Housatonic and Pontoosuc Rivers, and an important railway The Pontoosuc, an important mill stream. Manufacturing interests large and Woollens, paper, cottons, flour, and lumber. Population, 12,267.

Northampton — Hampshire County, on Connecti-cut and Mill Rivers. Very fertile district, noted for its beauty. Extensive and varied manufactures. Population, 11,108.

Malden-Middlesex County, five miles north of Natick Boston. Largely residential. Important manufactures: rubber boots and shoes, lasts, Important leather, and sand-paper. Population, 10,843.

Brockton — a manufacturing town in Plymouth

County, connected with Boston by railroad. Chief manufactures, boots and shoes. Population, 10,578.

-Hampden County, on the Connecticut Chicopee at the mouth of Chicopee River. Superior water-power. Extensive manufactures: cotton goods, machinery, bronzes, bronze can-non, and small arms. Population, 10,335.

Waltham—Middlesex County, on Charles River, ten miles west of Boston. Residential and

manufacturing. Cottons, watches and chro-Population, 9967.

Milford-Worcester County, at the junction of three railroads, one of the chief boot-manufacturing towns in New England. Machine-shops and other manufactories. Population, 9818.

Woburn-Middlesex County, ten miles northeast Residential. ures: leather, glue, chemicals, boots and shoes, clothing. Population, 9568.

Attleborough — Bristol County. Jewelry, clocks,

metal buttons, calicoes. Population, 224, Quincy—Norfolk County, on Quincy Bay, sepa-rated from Boston by Neponset River. Resi-

Westfield—Hampden County, on Westfield River.
Manufactures whips and steam-heating appa-

Seat of a state normal school. Population, 8431

Marlborough-Middlesex County. Contains Lake Williams, a beautiful sheet of water. Population, 8424.

Peabody-Essex County. Tanning and currying; Seat of Peabody Institute. boots and shoes. Population, 8066.

Marblehead—Essex County, on a peninsula. Sum-mer resort. Excellent harbor. Noted for Manufactures boots and shoes. Population, 7677.

k — Middlesex County, on Charles River.
Partly contains Cochituate Lake. Beautiful scenery. Noted for boots and shoes. Population, 7419.

'ly—Essex County, opposite Salem, on an arm of the sea. Good harbor. Noted for fisheries and for boots and shoes. Population,

Clinton - Worcester County, on Nashua River. Great water-power; large mills and factories, Ginghams, wire-cloth, combs, cotton-yarn, shoes, machinery, carpets Population, 6781.

Brookline-Norfolk County. Suburban town near Charles River, four miles from Boston. ried and delightful scenery. Nearly the whole town occupied with beautiful residences. Porulation, 6675.

Weymouth—Norfolk County. Boots and shoes; trade in lumber and coal. Population, 9819.

Medford—Middlesex County, on Mystic River. five miles from Boston. Seat of Tufts College. miles from Boston. Seat of Tufts College. Manufactures various: crackers, calico, wool-

same name. Oldest town in New England-settled by Pilgrim Fathers Dec. 22, 1620; many interesting relics of the early colonists preserved in Pilgrim Hall. Cod-fishery. Manufactures, cordage, nails, and tacks. Population, 6370.

Park-Norfolk County, seven miles from Boston. Mostly residential. Water-power and manufactures. Population, 6316.

Noted for granite. Population, 9155, Danvers-Essex County, fifteen miles from Boston. Manufacturing town. Leather, boots and shoes, carpets, and bricks. Population, 6024.

Education.—In the number, variety, and excellence of her educational institutions, Massachusetts is unsurpassed. To a great extent her common schools have been the model for similar institutions throughout the country.

Judicious liberality towards public education has marked the state from its foundation. It is this, together with her thoroughly democratic organization, that, more than any other cause, has established the high social, moral, and intellectual character of her people, and formed the solid basis of her honorable prosperity. Great as are many of the other interests of the state, none receives so general or so vigilant attention as education.

The common schools are under the general supervision of the State Board of Education, which consists of ten members, including the Governor and Lieutenant-Governor. The secretary of the board is state superintendent of public instruction. The schools are more directly in charge of local authorities elected by the people, and are free to all. It is required by law that all between eight and fourteen years of age must attend school at least twenty weeks in each year.

The system embraces every grade of school from the primary upward. There are more than two hundred high schools, five state normal schools—the one at Framingham being the oldest in the United States-and a State Agricultural College at Amherst. Industrial art-education, especially industrial drawing, has been made a part of the course of study in the common schools, and a State Normal Art School has been established in Boston. In the cities and larger towns evening schools also offer the advantages of industrial art-education to youth and adults.

Of the numerous corporate institutions not under the control of the state, many are of the highest order of excellence, and some are known throughout of seventeen ships and more than 1500 people, arrived, and established various settlements between the Charles River and the Merrimac, the most important of these being at Boston. All these were included under one government, as the Massachusetts Bay Colony. These colonists were part of a large body of persons in England who were called Puritans, because of their religious opinions.

During the first half century the colonists had two short and bloody wars with the neighboring Indian tribes, resulting in the almost complete annihilation of the Indians of southern New England. In the several wars between the English colonists and their French rivals in Acadie and Canada, the former suffered severely from the incursions of the northern savages. In all of these wars Massachusetts took a prominent part.

In the opening scenes of the Revolution, which established our nation as an independent republic, the part borne by Massachusetts must always be a source of honest pride, not only to her own sons, but to every patriotic American. "There is Boston, and Lexington, and Concord,



BUNKER HILL. ENGAGEMENT AT THE RAIL FENCE.

the world. Among them are Harvard College, Cambridge, the oldest and most richly endowed educational institution in America; Amherst College, Amherst; Boston College and Boston University, Boston; College of the Holy Cross, Worcester; Tufts College, Medford; and Williams College, Williamstown.

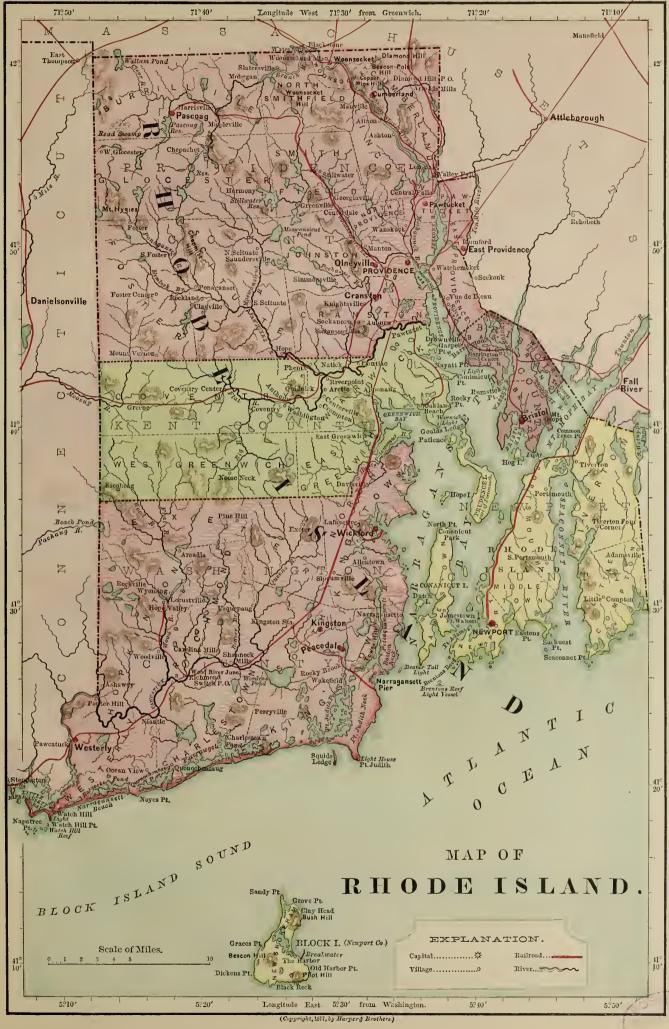
The leading institutions for the higher instruction of females, are Mount Holyoke Seminary, South Hadley; Smith College, Northampton; and Wellesley College, Needham.

Historical Sketch.—The first permanent settlement within the present limits of Massachusetts was made by a small body of English emigrants, who, being persecuted in England on account of their religious opinions, resolved to remove to the wilderness of America. Embarking in a small vessel, the Mayflower, they landed and settled at Plymouth in December, 1620. They are known in history as the Pilgrims. Their settlement remained a separate and independent colony until 1692, when it was united with the Massachusetts Bay Colony.

In 1624 another small body of religious exiles left England, and finally settled in Salem. In 1630 the "great immigration," consisting and Bunker Hill, and there they will remain forever." Her resolute example practically determined the equally noble course of her sister colonies. Throughout the long struggle the great cause received her unswerving support.

In 1780 the state adopted a government and constitution, in which there have since been but few alterations. In 1788 Massachusetts ratified the Constitution of the United States. In 1812 her hardy seamen, on the ocean and the Great Lakes, vindicated anew the cause of American independence. At the opening of the great Civil War, her soldiers were the first to march to the support of the Union; at its close, and after efforts and sacrifices worthy of her historic fame, no state extended to her late antagonists a more hearty welcome than Massachusetts.

Questions.—Describe the situation of Massachusetts. The surface. Drainage. Soil. Climate. What is said of its minerals? Agriculture? Manufactures? Fisheries? Commerce? Political organization? Describe Boston. What is said of education? Give an account of the history of Massachusetts.



### QUESTIONS ON THE MAP.

What states border on Rhode Island? What ocean on the south? What bay intersects the state? What bay at the southwest corner of the state? What other bays in Rhode Island?

How many counties? Which is the largest? Which is the smallest? What county forms the northern part of the state? The southwestern part? The central part? The southeastern part? What county includes a number of islands? Which counties border on Narragansett Bay? On the Atlantic Ocean? On Connecticut? On Massachusetts?

What rivers flow into Narragansett Bay? Into Mount Hope Bay? Into the Atlantic Ocean? What river drains the northeastern part of the state? What other names have parts of this river? What river drains the central and western parts of the state? The southwestern part of the state? Name some of the largest ponds.

What hills in Providence County? In Bristol County? Name the chief capes of Rhode Island.

What islands in Narragansett Bay? In what county? Which is the largest island? What island about ten miles southwest of Point Judith? What water separates Block Island from the mainland? To what county does it belong? What construction forms part of a harbor of refuge on the eastern side of the island? What beach east of Watch Hill Point?

How many and what towns in Providence County? In Kent County? In Washington County? Name the shire towns. Which of these are capital cities of Rhode Island. and where situated? What towns on Blackstone River? On Pawtuxet River? On Pawcatuck River? On Rhode Island? On Conanicut Island? On Block Island? To what towns do Prudence Island and Patience Island belong? What towns border on the Atlantic? On Narragansett Bay? Name the principal villages on the Blackstone. On the Pawtuxet. On the Pawcatuck.



VIEW OF PROVIDENCE.

### SPECIAL GEOGRAPHY OF RHODE ISLAND.

[Copyright, 1877, by HARPER & BROTHERS.]

### DESCRIPTION.

[Area, 1306 square miles; Population in 1875, 258, 239.]

Situation. — Rhode Island is situated between 41° 9′ and 42° 3′ north latitude, and between 71° 8′ and 71° 53′ west longitude. The state is divided into two unequal parts by Narragansett Bay. The western part is nearly a parallelogram, and is forty-five miles long and twenty-two miles wide. The eastern part is about thirty miles long and from four to fifteen miles wide. Block Island is about ten miles from the mainland. The tide-waters flow into every county of the state, and into more than half of its towns.

Surface.—The surface is generally hilly, the highest part being in the northern portion of the state. The land slopes towards the bay and the ocean, and the irregular surface affords a great variety of delightful land and water scenery. The islands in Narragansett Bay are noted for their picturesque views and salubrious climate.

Drainage.—Blackstone River and its tributaries drain the northern part of the state, the Pawtuxet the central, and the Pawcatuck the southwestern part. All of these streams are quite rapid, and afford facilities for manufacturing purposes. The Woonasquatucket, which unites with the Seekonk to form Providence River, and the Barrington, Warren, and Kickemuit, are the other chief streams of the state.

**Soil.**—The soil of the western part of the state is light and sandy; in the northern part and along Narragansett Bay it is rich and productive.

Climate —Owing to the influence of the ocean waters, the climate in winter is milder and in summer cooler than in other parts of New England in the same latitude. On this account the state is a popular and delightful resort during the summer months.

Minerals.—Coal is found in Cumberland, Cranston, Portsmouth, and Bristol; iron in Cumberland; and limestone in Smithfield. Westerly has extensive quarries of the finest granite. Granite is also found in Cumberland, Johnston, South Kingstown, and some other towns.

Agriculture. — The island of Rhode Island, and the lands along Narragansett Bay and in the adjacent towns, are highly cultivated, and produce a great variety of vegetables, grains, and fruits.

In 1875 the chief farm products were: hay, 81,000 tons; rye, 16,000 bushels; oats, 86,000 bushels; maize, 242,500 bushels; barley, 85,000 bushels; onions, 74,000 bushels; cranberries, 15,800 bushels; orchard and garden products, \$508,000; butter, 864,000 pounds; milk sold, 2,819,000 gallons; root crops, 255,000 bushels. Total value of farm products, \$4,781,000.

Fisheries.—This state has 320 miles of shore washed by the tidewaters and abounding with the choicest food-fishes, and with others used as fertilizers. The total value of the fisheries in 1875 was \$1,261,600.

Manufactures. — Rhode Island is noted as a manufacturing state. Among the leading articles of manufacture are cotton and woollen goods, fire-arms, steam-engines, jewelry and silverware, screws, indiarubber goods, and manufactures of iron. Bleaching and dyeing and the printing of cotton and woollen goods employ a large amount of capital.

In 1870 the capital employed in manufactures was \$66,557,322; value of materials, \$73.154,109; value of annual products, \$111,418,354; wages paid, \$19,354,256; persons employed, 49,417.

### Principal Manufactured Products in 1870.

Bleaching and Dyeing	\$13,842,000	Jewelry and Plated Ware	\$4,256,000
Cotton Goods	22,072,000	Printing Cottons and Woollens	17,842,000
		Screws	
India-rubber and Elastic Goods	1,805,000	Woollen and Cotton Goods	15,394,000
Total		\$111.418.000	

Commerce.—The exchange of manufactured products for food, coal, and raw material by the numerous railroads and steam and sailing vessels constitutes an extensive commerce, both domestic and foreign.

### Railroads in 1877.

NAMES.	BETWEEN	MILER.
Boston and Providence	Providence and Boston, Mass	. 44
Hartford, Providence, and Fishkill	Providence and Waterbury, Conn	. 122
New York, Providence, and Boston	Providence and Groton, Conn	63
Old Colony	Newport and Boston, Mass	. 68
Providence and Springfield	Providence and Pascoag	. 23
Providence and Worcester	Providence and Worcester, Mass	. 44
Providence, Warren, Bristol, and Fall River	Providence and Bristol and Fall River, Mass	. 18

Political Organization.—The official designation of the state is "The State of Rhode Island and Providence Plantations." The executive officers are the Governor, Lieutenant-Governor, Secretary of State, Treasurer, Auditor, and Attorney-General.

The legislative department is the General Assembly, which consists of a Senate and a House of Representatives. The Senate has thirty-six members; the House, seventy-two. The General Assembly, and all the executive officers except the Auditor, are elected annually by the people. The General Assembly holds a short session at Newport in May of each year, and an adjourned session at Providence in the following January.

The judiciary consists of the Supreme Court, with a chief and four associate justices, elected by the General Assembly, and Courts of Common Pleas.

The state has two Senators and two Representatives in Congress, and therefore has four electoral votes.

Rhode Island is divided into five counties, viz.: Providence, Bristol, Newport, Kent, and Washington, and is subdivided into thirty-six towns. Providence and Newport, the capitals, are cities.



PROVIDENCE, the joint capital with Newport, and the second city of New England, is situated at the head of Providence River. As the



chief depot for the manufactures of the city and state, it has an extensive commerce, and is a centre from which radiate thirteen lines of railroad. The chief products are cotton and woollen goods, iron and silver wares, jewelry, firearms, and screws. The value of the manufactured products in 1875 was nearly fifty-three million dollars.

The principal public buildings are the Arcade, Custom House and Post-Office, City

Hall, State House, Court House, Opera House, and Narragansett Hotel.

The public schools of this city are objects of just pride to the people, both schools and school-buildings being among the best in New England. The city contains the State Normal School, a high school, 11 grammar schools, 36 intermediate and 40 primary schools, and is the seat of Brown University. The population in 1875 was 100,675.

NEWPORT is beautifully situated near the entrance to Narragansett Bay and at the southern end of the island of Rhode Island, sometimes called the "Eden of America." Its harbor is one of the finest in the world. The city is a noted summer resort, and contains the residences of many people of wealth and culture from other parts of the country. Among its prominent attractions are its delightful summer climate, its ocean, bay, and island views, and its quaint historic structures. The Old Stone Mill is an object of universal interest and inquiry. Old State House, the Redwood Library, the Jewish Synagogue, the Mall, Fort Adams, and the magnificent hotels are places of attraction. The public schools rank among the best in the country. Rogers' High School is the first in importance in the city. Population, 14,028.

PAWTUCKET is a large manufacturing town in Providence County, on Blackstone River. The principal products are cotton and woollen goods, thread, fire-engines, machinery, hair-cloth, and jewelry. It is only second to Providence in the total value of its products. Population, 18,464.

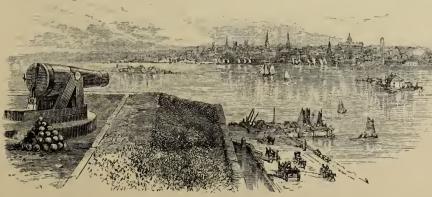
WOONSOCKET, a manufacturing town in Providence County, on Blackstone River, has extensive and valuable water-power. It is noted for the quality and quantity of its woollen and cotton goods. Population, 13,576.

WARWICK, in Kent County, is the third town in the state in manufacturing importance. Pawtuxet River flows in a winding course through the whole length of the town, and affords constant water-power. Population, 11,614.

LINCOLN, in Providence County, on Blackstone River, is a manufacturing town. Its farm products are also valuable, and its quarries furnish large quantities of lime of the best quality. Population, 11,565.

BRISTOL, the shire town of Bristol County, is beautifully situated on Narragansett and Mount Hope Bays, and is a popular summer resort. Mount Hope, about 200 feet high, once the residence of "Philip, chief of the Wampanoags," is a rocky eminence of picturesque beauty on Mount Hope Bay. Bristol has extensive cotton and rubber factories, a large sugar refinery, and considerable coasting trade. Population, 5829.

CRANSTON, in Providence County, contains large mills, manufactories, printworks, the State Farm, and State Prison. The city of Providence receives its supply of water from Pawtuxet River in this town. Population, 5688.



VIEW OF NEWPORT.

CUMBERLAND, on the Blackstone River, in Providence County, has good waterpower and some of the finest cotton-mills in the world. The town has coal and iron mines, and large agricultural wealth. Population, 5673.

WESTERLY, the most populous town in Washington County, has good waterpower on Pawcatuck River, and extensive granite quarries. Watch Hill, on the ocean, is a noted summer resort. Population, 5408.

BURRILLVILLE, in Providence County, is a well-wooded agricultural and manufacturing town in the northwestern part of the state. The principal products are woollen goods. Pascoag is the principal village. Population, 5249.

Among the other principal towns are—

Johnston — Providence County. Manufactures and agriculture. Contains Olneyville, a sub-

urb of Providence. Population, 4959.

Coventry—Kent County. Agriculture and manufactures. Cotton goods, wood, lumber. Population, 4580.

East Providence - Providence County, a suburb North Kingstown-Washington County, on Naron Providence and Seekonk Rivers Rum ford Chemical Works. Fine residences. opulation, 4336

South Kingstown-Washington County, on Narragansett Bay and Atlantic Ocean. villages of Kingston, the county seat; Peacedale, woollen mills; Narragansett Pier, delightful summer resort. Tower Hill h fine ocean views. Population, 4240.

Manufactures | Scituate - Providence County. Agriculture and manufactures. Cotton and woollen goods. Seat of Lapham Institute. Population, 4101.

Warren Bristol County, on Warren River. Residential. Extensive cotton manufactures. Population, 4005.

ragansett Bay. Residential and agricultural.
Manufactures. Population, 3505.

East Greenwich—Kent County; county seat; beautifully situated on Narragansett and Greenwich. wich Bays. Agriculture and manufactures.
Greenwich Academy. Population, 3120.
Smithfield—Providence County. Agriculture and

perous viliages. Population, 2857.

Education.—The school system of Rhode Island compares favorably with the best in the Union. The schools are under the supervision of a Board of Education, which consists of eight members, and includes the Governor and Lieutenant-Governor. The Commissioner of Public Schools is the secretary of the board, and its agent to superintend the schools of the state. The school officers in each town consist of a school committee and a town superintendent of schools. Trustees are also elected in some districts to have charge of certain local interests.

High schools are maintained in nearly half of the towns of the state, and in nearly all the towns the public schools are graded. Besides these there are evening and vacation schools and the State Normal School. There are also many private schools. Among the corporate institutions are Brown University, the Friends' School, University Grammar School, Greenwich Academy, and Lapham Institute.

Historical Sketch.—Roger Williams began the settlement of Providence Plantations, the first within the limits of the state, in June, 1636. In 1638 Rhode Island Colony was founded by William Coddington, and the two settlements were soon after united as one colony. The colony of Williams was the first purely democratic government in the world, in which the people were allowed to exercise the rights of conscience in spiritual affairs, the colonists forming their own government, and binding themselves to obey it "only in civil things." In 1663 a charter was obtained from Charles II., which completely established the principle of "soul liberty," and which continued to be the fundamental law of the state until 1842, when the present state constitution was adopted.

The people of Rhode Island took an active part in those acts of opposition to the tyranny of the British government which led to the American Revolution. The first open resistance by any colony was the capture and burning of the British armed schooner Gaspee in

Narragansett Bay, about seven miles below Providence, in 1772. Throughout the war Rhode Island contributed liberally of money, soldiers, armed vessels, and sailors for the common defence. Among her citizen soldiers was General Nathanael Greene, second only to Washington. Rhode Island suffered severely from the long occupation of Newport by the British, and the island was the scene of one of the most memorable battles of the war. In 1790 Rhode Island adopted the Constitution of the United States.

Questions.—Describe the situation of Rhode Island. The surface. Drainage. Soil. Climate. What is said of its minerals? Agriculture? Fisheries? Manufactures? Commerce? Political Organization? Describe Providence-Newport. What is said of education? Give an account of the history of Rhode Island.

### CONNECTION ĹΤ $\Box$ SPECIAL GEOGRAPHY

Copyright, 1877, by HARPER & BROTHI

## OUESTIONS ON THE MAP.

How many and what states border on Connecticut? What water, on the south? What island south of the Sound? What counties border on Massachusetts? On New York? On Rhode Island? On Long Island Sound? How many counties in the state? Name them.

What three rivers cross the state and drain the greater part of it? Into what do they flow? What is the general direction of most of the rivers of the state? What two rivers unite to form the Thames? Which is the chief branch of the Shetucket? Which is the largest river of the state? Name its largest western branch. Its three chief eastern branches. The chief branch of the Housartonic. Name the chief rivers in each of the counties.

What city is the capital of Connecticut? Where situated? What other city on the Connecticut? What two on the Thames? What four near Long Island Sound? What city nearly north of New Haven? North of Meriden? Name the ten cities of the state. In what county is each? Name the shire town of each county. How many and what counties have two shire towns?

### DESCRIPTION

Area, 4680 square miles, or 2,995,200 acres. Population in 1870, 537,454.]

**Situation.**—Connecticut is situated between 41° and 42° 10′ north latitude, and between 71° 48′ and 73° 43′ west longitude. Its form is nearly a parallelogram. Its average length, from east to west, is about ninety miles, and its average width about fifty-four miles.

has forced a passage through the range bordering the valranges of hills which gradually diminish in height as they cross the state from north to south. Between these ranges is the broad valley of the Connecticut. It is about twenty miles wide, and extends across the middle of the state to ley on the east, and thence follows another valley to the Another broad valley, that of the Thames and Quinin the west the narrower ones of the Housatonic and the Surface.—The surface is diversified by nearly parallel are long and fertile valleys, the most important of which the Sound near New Haven, At Middletown the river ebaug, ten or twelve miles in width, lies in the east, and Naugatuck. In the northwestern part is an elevated plateau from twelve to twenty miles wide, containing the highest land of the state. Along the Sound the surface is low and level, or moderately hilly.

**Drainage.**—The state is chiefly drained by the rivers already mentioned. Besides these and their numerous branches, the coast region is drained by many short streams, the Quinnipiac, which enters the Sound at New Haven, and is about forty miles long, being the most important.

The rivers furnish abundant water-power, which is extensively used for manufacturing purposes, particularly along the Naugatuck and the Quinebaug. Vessels ascend the Connecticut to Hartford, the Thames to Norwich, and the Housatonic to Derby.



Valley as far south as Middletown, and in the lowlands along the other rivers, the soil is fertile and easily cultivated. Along the sea-coast it is generally sandy; and in the hilly regions, which form the greater part of the state, it is hard, often stony, difficult of cultivation, and of moderate fertility. The northern and especially the northwestern parts

are a noted dairy region.

Climate.—Connecticut has shorter and milder winters and longer summers than other parts of New England, owing to its more southern position and its nearness to the sea. Still, the extremes of cold and heat are sometimes oppressive.

Minerals.—Iron is abundant in the northwestern part of the state, and is extensively manufactured. There are mines of copper, lead, and silver. Barytes for mineral paint and hydraulic lime for cement are found near Meriden. There are also very valuable quarries of marble at North Canaan; of flag-stone at Bolton and Haddam; of sandstone at Portland, Cromwell, and Middletown; and of granite in Windham, New Haven, and New London Counties.

Agriculture.—Nearly three fourths of the land in Connecticut is occupied for cultivation or pasturage.

The chief farm products in 1870 were: Indian corn, 1,570,000 bushels; rye, 289,000 bushels; oats, 1,115,000 bushels; potatoes, 2,790,000 bushels; hay, 563,000 tons; butter, 6,716,000 pounds; cheese, 2,031,000 pounds; milk sold, 6,253,000 gallons; tobacco, 8,329,000 pounds.

Manufactures.—Notwithstanding the small area of the state, Connecticut ranks fifth in the Union in the amount of capital and in the number of persons employed in manufacturing. Only Massachusetts and Rhode Island have a larger proportion of the population so employed. In variety of manufactures this state exceeds every other.

In 1870 the capital employed was over \$95,000,000; the value of the raw materials used, \$87,000,000; of manufactured products, \$161,000,000; wages paid, \$39,000,000. Water-power is extensively employed, but steam is rapidly superseding it.

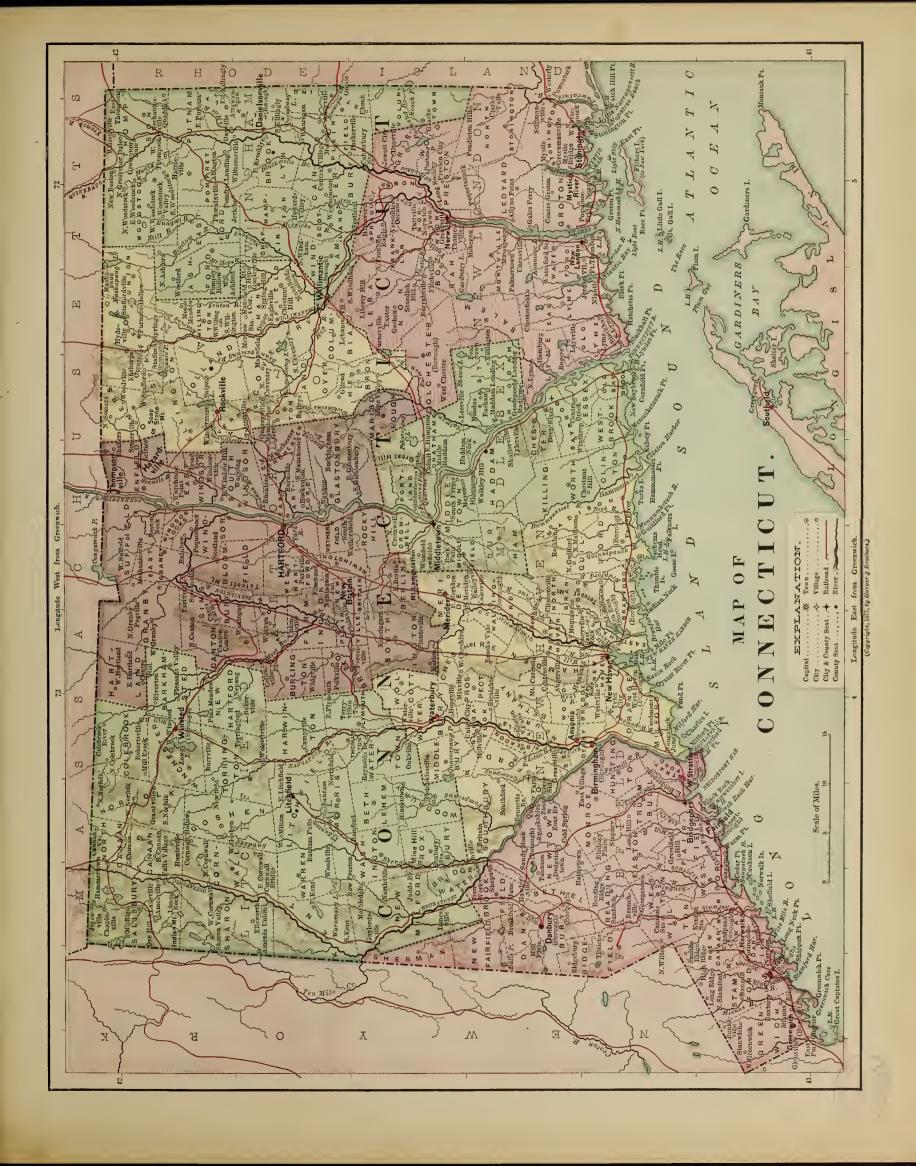
# Principal Manufactured Products in 1870.

\$12,672, 4,372, 4,240, 7,553, 5,010, 4,067, 8,360, 3,360, 17,866,	
Hardware Hardware Harts, Caps, Hatters' Tools and Materials India-tubber and Elastic { Goods Iron and Iron-ware Machinery and Engines. Paper Pap	Note.—In those marked * Connecticut ranks above every other state.
\$2.850,000 2,380,000 2,405,000 4,934,000 4,481,000 2,100,000 2,100,000 3,841,000 3,906,000 6,216,000	Connectica
Bleaching and Dyeing \$2,850,000 Blotes Shees, and Findings 2,850,000 Brasssware Cars, Carriages, and Wag- 4,940,000 Cothing 4481,000 Cothing and Fixtures Cotton Goods 14,000 Cotton Goods 2,100,000 Fouring and Ammunition 3,006,000 Flouring and Grist Mill 3,006,000	Nore.—In those marked *

**Commerce.**—The domestic commerce is very large, and is carried on partly by means of the railroads, which reach all parts of the state, and partly by the numerous sailingvessels and steamboats upon the rivers and the Sound. There are 939 miles of railroad within the state.

### Principal Railroads in 1877

MILES.	ŝ	28	46	64	23
נאמ	:	:	:	:	:
BETWEEN	Boston and New York Air LineNew Haven and Willimantic	Connecticut Central	Connecticut Valley	Connecticut Western	Danbury and NorwalkDanbury and South Norwalk 23
NAMES.	Boston and New York Air Line	Connecticut Central	Connecticut Valley	Connecticut Western	Danbury and Norwalk



### Principal Railroads-Continued.

NAMES.	BETWEEN	MILES
Hartford, Providence, and Fishkill	Waterbury and Providence, R. 1	123
Housatonic	Bridgeport and Pittsfield, Mass	116
Naugaluck	Bridgeport and Winsted	5
New Haven and Northampton	New Haven and Williamsburg, Mass	99
New London Northern	New London and Millers Falls, Mass	100
New York and New England	Willimantic and Boston, Mass	80
New York, New Haven, and Hartford	. New York and Springfield, Mass	145
New York, Providence, and Boston	New London and Providence, R. I	63
Norwich and Worcester	Norwich and Worcester, Mass	60
Shepaug	Hawleyville and Litchfield	3:
Shore Line	New Haven and New London	50

from 1660. The City Hall, the Court-house, the High School, and the new State Hospital are handsome and commodious structures.

The great trunk railroad between New York and Boston passes through New Haven, and four others centre there, giving ready access to all parts of the state. The coasting trade is extensive, and there is considerable foreign commerce, mostly with the West Indies.

The city has large and varied manufacturing interests. Among the most important articles produced are carriages, rail-cars, clocks, silver and plated ware, hardware, machinery, engines and boilers, brass-ware,



NEW HAVEN

Political Organization.—The executive officers are a Governor, a Lieutenant-Governor, a Secretary of State, a Treasurer, and a Comptroller. The legislative department, or General Assembly, consists of a Senate of twenty-one members, and a House of Representatives of two hundred and forty-six members. The executive officers and the senate are elected for two years, and the representatives for one year.

The judiciary consists of the Supreme Court of Errors, which has a chief-justice and four associate judges; the Superior Court, which has eleven judges, including those of the Supreme Court. There are also Courts of Common Pleas, District Courts, and Probate Courts. The judges of probate are elected by the people for two years. All other judges are elected by the General Assembly, those of the lower courts for four years, those of the higher for eight years.

The state is divided into eight counties, viz.: Fairfield, Hartford, Litchfield, Middlesex, New Haven, New London, Tolland, and Windham. In 1876 the number of towns in the state was one hundred and sixty-seven; of cities, ten, viz.: Bridgeport, Hartford, Meriden, Middletown, New Britain, New Haven, New London, Norwich, South Norwalk, and Waterbury. There are twenty-one boroughs and two incorporated villages.

The state has two Senators and four Representatives in Congress, and therefore has six electoral votes for President and Vice-President.

New Haven, the county seat of New Haven County, is the largest city in the state. It is situated at the head of New Haven Bay, four miles from the Sound, and on a wide plain nearly surrounded by hills. Conspicuous among these are two widely celebrated bluffs about 400 feet high, and known as East Rock and West Rock. In the centre of the oldest part of the city is an open square or "green," which, with the adjoining college grounds, contains twenty-five acres. This square and many of the streets and avenues are shaded by beautiful elms, from which the city has received the name of "The City of Elms."

The most prominent public institution of New Haven is Yale College, founded at Saybrook in 1700, and removed to New Haven in 1717. It is a university, comprising departments for all the principal branches of study, and attended by more than one thousand students. Its most conspicuous buildings are the Art Gallery, the Library, the Peabody Museum, and the Battell Chapel. The Hopkins Grammar School, for preparing boys for the college, dates its origin

pianos and cabinet organs, rubber goods, fire-arms and ammunition, fish-hooks, locks, and heating apparatus. Population, 50,840.

HARTFORD, in Hartford County, is the capital of Connecticut, and the second city of the state. It is situated on the west bank of Connecticut River, fifty miles from the Sound by the course of the river, or thirty-five miles in a direct line. It is surrounded by the beautiful and fertile lands of the Connecticut Valley, and is the centre of an extensive business. Two railroads passing through the city, and three others terminating there, connect it with all parts of the state. The Connecticut, which is navigable to the city, furnishes water transportation.

The manufactures are varied and extensive. Among the most prominent are fire-arms and ammunition, steam-engines, boilers and machinery, car-wheels, screws, pumps, cutlery, sewing-machines, plated-ware, silk goods, books, and envelopes. The city is also the depot for great quantities of goods manufactured in the surrounding region. Hartford is noted for having a larger number of insurance companies, in proportion to its population, than any other city in the United States. Their vast business is spread over a large part of the country.

The most important public institutions are Trinity College; the American Asylum for the Deaf and Dumb, founded in 1817, and the oldest institution of the kind in America; the Retreat for the Insane; the Hartford Hospital; the High School; and the Wadsworth Athenæum, which contains several public libraries and halls of statuary and paintings.

The new State House, an extensive building of white marble, stands in a conspicuous position in Bushnell Park, an enclosure of forty-five acres. The city contains many other substantial and costly buildings. Population, 37,743.

Bridgeport, one of the county seats of Fairfield County, is situated on a small harbor eighteen miles southwest of New Haven, and is the most important station on the railroad between that city and New York. Two other railroads, leading northward, also terminate here. The city has a large coasting trade, and is noted for the value and variety of its manufactures, especially of fire-arms and sewing-machines. Among others are carriages, hardware, brass-ware, pumps, steam-engines, and machinery. Sea-side Park furnishes a fine view of the Sound. Population, 21,735.

NORWICH, a city of New London County, at the head of Thames River. It is noted for its beautiful situation. It has a commodious harbor and considerable maritime trade. Norwich is the natural centre of a large manufacturing

district connected with it by two railroads. In the city and its immediate vicinity are made cotton, woollen, worsted, and rubber goods, paper, fire-arms, sewing-machines, locks, and hardware. The Free Academy, built and endowed by citizens of Norwich, is an honor to the city. Population, 16,653.

WATERBURY, a city of New Haven County, lies in the Naugatuck Valley, and is intersected by two railroads. It is the chief centre of the brass industry of the United States, and annually consumes about three thousand tons of copper. Its manufactures are varied and extensive, and include rolled copper and brass, copper and brass wares, clocks, pins, hooks and eyes, cutlery, hardware, lamps, buttons, rubber goods, and paper. Population, 13,106.

NORWALK, in Fairfield County, is on the shore of the Sound, about midway between New York and New Haven. In the southern part of the town is the City of South Norwalk, which manufactures hats, pottery, hardware, locks, steam-pumps, and machinery. Two miles north of the city is the borough of Norwalk, which is a beautiful village. Population, 12,119.

MIDDLETOWN, a city of Middlesex County, is on the west bank of Connecticut River, fifteen miles south of Hartford, and at the intersection of two railroads. The surrounding country is of remarkable fertility and beauty. The Connecticut is navigable to this city for large vessels, and there is an important coasting trade. The sandstone quarries of Portland, on the opposite side of the river, and those of other places in the vicinity, yield valuable building-stone, the transportation of which to New York and elsewhere gives employment to numerous river craft. Manufactures of plated-ware, sewing-machines, cotton, silk, machinery, edge tools, hardware, pumps, and other articles are carried on here. The city is the seat of the Wesleyan University. Population, 11,126.

MERIDEN is a manufacturing city of New Haven County, midway on the railroad between Hartford and New Haven. It produces silver and plated wares, bronze goods, cutlery, hardware, lamps, glass-ware, combs and piano-keys, brass-ware, machinery, and castings of every description. Population, 10.495.

STAMFORD, a town in Fairfield County, contains many hills which afford pleasant views of the Sound. The wholesome air and attractive scenery have led many business men of New York to make Stamford their residence. In the vicinity are manufactures of locks, carriages, stoves, ploughs, etc. Population, 9738.

NEW LONDON, in New London County, on the west bank of the Thames, four miles from the Sound, is a favorite summer resort. The city is the terminus of three railroads. It has a safe, deep, and commodious harbor, one of the best in the United States, and is the site of a navy-yard. It has extensive interests in the whale, seal, cod, and mackerel fisheries. Population, 9576.

NEW BRITAIN, in Hartford County, eight miles southwest of Hartford, is a thriving manufacturing city. Builders' hardware is the chief interest. Among other articles extensively produced are hosiery, cutlery, jewelry, lace, hooks

tains the manufacturing villages of Birmingham and Ansonia. Among the leading articles produced are brass and copper wares, clocks, pins, hooks and eyes, screws, plated-ware, woollens, and agricultural implements. Housatonic River and two railroads furnish transportation. The dam across the Housatonic at Birmingham furnishes an immense water-power, which is to be used on the west side of the river, in the town of Huntington. Population, 8020.

Greenwich, in Fairfield County, is an extensive and hilly township at the southwestern corner of the state. The principal village is a favorite resort from the city of New York, and has an elevated and beautiful situation, affording an extensive view of the Sound. Population, 7644.

Enfield, in Hartford County, contains the large village of Thompsonville, where carpets are extensively manufactured, and the village of Hazardville, in which are made large quantities of gunpowder. Two railroads pass through the town. Population, 6322.

STONINGTON, in New London County, forms the southeast corner of the state. The borough of Stonington occupies a narrow point of land running out into the Sound, and has a good harbor, which is protected by breakwaters. A railroad passes through the principal villages of the town. On Mystic River, which forms the western boundary of the town, there are villages engaged in the woollen manufacture and in ship-building. Stonington is a favorite summer resort. Population, 6313.

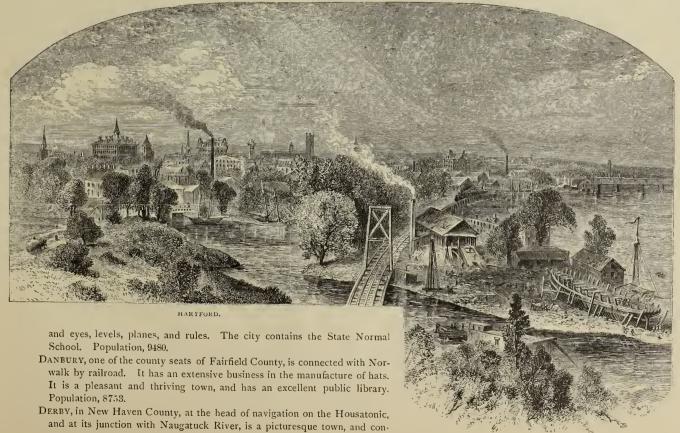
KILLINGLY, in the eastern part of Windham County, on Quinebaug River, is an extensive town containing several manufacturing villages, occupied chiefly in the making of cotton and woollen goods. The largest of these villages is Danielsonville. The borough of that name includes the village of East Brooklyn, in the town of Brooklyn. Population of Killingly, 5712.

Vernon, in Tolland County, includes the village of Rockville, at the outlet of Snipsic Lake. Rockville is the largest village in the county, and manufactures cassimeres, satinets, sewing-silk, thread, and envelopes. Population, 5446.

WINDHAM forms the southwestern part of Windham County. The village of Windham is a quiet and beautiful spot. The borough of Willimantic, on Willimantic River, is the most populous and important part of the town, and is largely engaged in manufacturing. Cotton goods, cotton thread, and silk are the leading products. Two railroads passing through the borough, and two others connecting there, give ready communication with the principal cities of southern New England. Population of Windham, 5412.

GROTON, in New London County, includes several villages, the largest of which are in the eastern part of the town, upon Mystic River, and contain ship-yards and hardware manufactories. Population, 5124.

Among other important towns are-



Portland — town in Middlesex County. Sandstone quarries, ship-building. Popu-

ries, smp...
lation, 4693.

Plainfield — town in Windham
County. Two railroads.
Several manufacturing villages on the Quinebaug
and a branch. Cotton
goods. Population, 4521.
Southington — town in Hartford

Country, manufactures hardware (especially carriage hardware), pocket cutlery, curry-combs. Population, 4314.

Manchester—town in Hartford County. Cotton and woollen goods. Most extensive silk-works in the United States Population 4923

States. Population, 4223.

Putnam — town in Windham
County, named from General Putnam, who lived in
the vicinity. Cotton and
woollen goods. Population, 4192.

Winchester—town in Litchfield
County, on branch of Farmington River. Contains
manufacturing village of
Winsted. Agricultural implements.pins,cuttery plated
goods, clocks, carriages, and

wagons. Population, 4096.

Thompson — town in Windham
County, northeast corner of
the state. Three railroads:
many lakes and mill-streams.
Several manufacturing villages. Woollen goods, edge
tools, and twine. Population, 3804.

Bristol—town in Hartford Coun-

ty. Manufactures clocks,

An extensive Manufactures town: mostly agricultural. wool hats and India-rubber goods. ion, 3681.

Wallingford—in New Haven County. Plated Suffleld—in Hartford County. A rich farming goods, forks, spoons, gimlets, and bits. Poputown. Cultivation and manufacture of togoods, forks, spoons, gimlets, and bits. Population, 3676.

New Milford - in Litchfield County. Extensive, pleasant, and productive farming town. Intersected by Housatonic River and Railroad.

Glastonbury-in Hartford County, on Connecticut River. Large and fertile farming town.
Manufactures cotton and woollen goods, firearms, spectacles, spoons, and soap.

Sprague—in New London County. Cotton and woollen goods and paper. Baltic cotton-mill, one of the largest in the world. Population,

Milford—in New Haven County, on the Sound. A farming town. Manufactures straw goods, carriages, and boots and shoes. Population,

Stafford-in Tolland County. Several villages. Satinets and cotton and woollen goods. Pop-

uration, 3405.

Colchester—in New London County. A beautiful town. Agricultural. Manufactures Indiarubber goods. Population, 3383.

Interatius, prass and iron ware, sewing-machine needles. Population, 3025.

East Hartford—in Hartford County. A fertile township. Market-gardening. Paper. Population, 3007.

Education. - Connecticut has long been distinguished for the excellence of her educational institutions. Public schools were established by the first settlers soon after their arrival, and have been maintained with increasing liberality from that time.

The general direction of the public schools and of the normal school is committed to the State Board of Education, which consists of the Governor, Lieutenant-Governor, and four members appointed by the Legislature. The Secretary of this board is the State Superintendent

of Public Schools. The more immediate care of the schools of each town is in the hands of boards of school visitors or school committees, elected by the people. The public schools are free to all children over four years of age. Those between eight and fourteen years are required by law to attend school at least three months every year.

Some towns have high schools, and in the largest towns there are graded schools whose highest departments are, in many cases, equivalent to high schools. Evening schools are maintained in many places.

Among the leading academic schools are the Hopkins Grammar School, New Haven; the Female Seminary, Hartford; the Free Academy, Norwich; the Episcopal Academy, Cheshire; St. Margaret's Diocesan School, Waterbury; the Connecticut Literary Institution, Suffield; and the Morgan School at Clinton. There are also many excellent private schools.

The colleges and professional schools of the state attract many students, two thirds of whom are from other states, and some from other countries. Yale College, the oldest and best endowed in the state, and, with one exception, the oldest in the country, has several departments besides the original college, the most conspicuous being the Sheffield Scientific School. Trinity College and Wesleyan University are excellent and prosperous institutions.

Historical Sketch.—In 1633 Dutch traders from New Amsterdam built a small fort on the Connecticut where Hartford now stands. few weeks later a party of Englishmen from Plymouth, Massachusetts,

plated-ware, and hardware. Population, Westport - in Fairfield County, on the Sound. Manufactures of cotton and morocco; axes, stoves and furnaces. Population, 3367.

Lies upon the Sound. Favorite summer resort. Population, 3745.

Newtown — in Fairfield County. An extensive town, mostly according to the state. A hilly town; beautiful lakes. It is the state. The most town is the state of the state. The state is the state of the state of the state. The state of the state. tiful lakes. Iron-mines and iron manufact-ures; car-wheels and railroad castings; cutation, 3303.

> Connecticut Literary Institution. Population, 3277.

Litchfield—county seat of Litchfield County.
Hilly and elevated. Principal village on a
hill-top. Pure cool air, fine shade trees, hill-top. Pure cool air, fine shade trees beautiful views. Good railroad communication and a favorite summer resort. Population, 3113.

Popula- New Hartford-in Litchfield County, on Farmington River. Manufactures cotton goods, machinery, carpenter's tools. Population,

> Stratford-in Fairfield County, at the mouth of the Housatonic. Broad and beautiful streets, with hundreds of fine elms and other trees. West hundreds of fine elms and other trees. Stratford, a suburb of Bridgeport. Popula-

Hamden - in New Haven County. Adjoins New Haven. Agricultural. Manufactures cotton, fire arms, brass and iron ware, sewing-machine

sailed past the Dutch fort and began a settlement at the mouth of Farmington River, in the present town of Windsor. Some years later the Dutch sold their claims to the English. In 1634 and 1635 a large number of emigrants from the vicinity of Boston settled at Windsor, Hartford, and Wethersfield. In 1636 these towns united under one government. This was the beginning of the Connecticut Colony, to which new towns were afterwards added. In January, 1639, this colony adopted a constitution which has always been admired for its wisdom and liberality. It is also memorable as the first example in history of a written constitution organizing a government and defining its powers. It formed the basis of the famous charter granted by Charles II., in 1662, and its leading features have been copied into the constitutions of the several states and of the United States.

In 1638 a settlement was begun at New Haven; and in 1643 a new colony was organized by the union of that town with Milford, Guilford, and Stamford, to which Southhold, on Long Island, and Branford were afterwards added.

In 1665 the colonies of Connecticut and New Haven were united under the charter of 1662. Among other liberties, this charter gave the people a right to choose their own rulers. Several attempts were made to annul it. In 1687, James II. sought to combine New England. New York, and New Jersey into a single powerful colonial organization, under

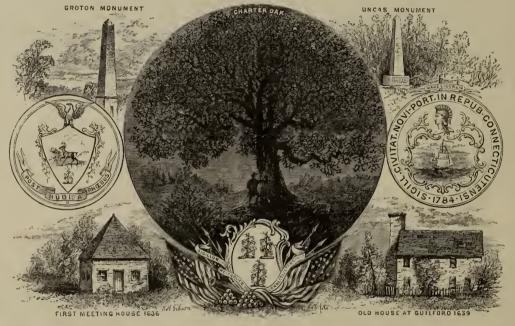
> the more direct control of the king; and appointed Sir Edmund Andros governor-general, to carry the design into effect. Andros came to Hartford and demanded the charter, but it was secretly carried away and hidden in a hollow tree, since famous as the Charter Oak.\* In 1689, soon after the flight of James II. from England, the charter was again brought forth, and remained the fundamental law of the colony and state until 1818, when the present constitution was formed.

> In 1637 trouble arose with the Pequot Indians,

a warlike tribe living east of Thames River. In a short but bloody war the Pequots were almost annihilated. In those wars between England and France which involved their American colonies, Connecticut did her full part in the supply of men and money. In the Revolution, and under her energetic and patriotic governor, Jonathan Trumbull, "Brother Jonathan," Connecticut did as much in proportion to her population as any other state. Several of her coast towns were burned and many of her citizens were slain in trying to defend them.

Connecticut had a prominent part in the framing of the Constitution of the United States, and was the fifth to ratify it, January 9, 1788. In the war of 1812-15 all requisitions for soldiers were promptly complied with. In the Civil War, 1861-65, Connecticut furnished more than her full quota of men, and made liberal provision for them and their families. No state sent regiments better equipped, and none did better service.

Questions.—Describe the situation of Connecticut. The surface. Drainage. Soil. Climate. What is said of its minerals? Agriculture? Manufactures? Commerce? Political organization? Describe New Haven. Hartford. What is said of education? Give an account of the history of Connecticut.





Boston Public Library
Central Library, Copley Square

Division of Reference and Research Services

The Date Due Card in the pocket indicates the date on or before which this book should be returned to the Library.

Please do not remove cards from this pocket.

